

(2) INFORMATION FOR SEQ ID NO:1170:

(A) LENGTH: 870 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: -

(B) LOCATION: 1..870

(D) OTHER INFORMATION: / Ceres Seq. ID 1597162

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11/0:						
atggcgactc	tcttcactgc	gacggttcct	tctcaccacc	gtttcgtctc	tccatcccaa	60
catccgaaac	agagtcttct	atcgcagctg	ctaagcgctca	cattcacgga	gaatccacaa	120
ccaacggcgg	tggtcacatt	gcaggagcag	caattgacgg	attggattac	ttctccggtg	180
acgcgacggt	tcggaatcgg	cgccgggttt	acctgggctg	ggtttttagc	tttcggtgtt	240
gtctccgagc	agatgaagaa	gtcacgactc	gatgtgtttc	aggaagagga	taacacaaga	300
ggtttagaaa	agcaagaaga	gatcatctta	ccaaacggca	taaggtacta	tgatctacaa	360
gttggaagtg	gagctactcc	aagctcagga	tacttggtag	tgtttgatgt	aaagggacaa	420
gtacatggca	ctgaacaagt	gttcgtggac	acatttgagg	gcaaaggcaa	gtcactagcg	480
atggtaatgg	actcaagacc	gtatagcaag	ggactatgcc	aaggtataga	gcatgttctc	540
aggtcaatga	aggctggagg	taaacgtaga	gtgataattc	caccgtcctt	aggatttgga	600
gacagaaaatg	tcgaatttgg	acagggtttg	gagattcctc	catctgcaac	acttgactat	660
atcatcgagg	ttgatcacgt	tattgttttc	caaaactattg	tggtttacca	gttcatattc	720
ttcgtaatca	cggctctttt	caaatttgat	caagtcactg	actttgctgg	tagcacaaac	780
ttcgttatac	ttgctgtgtt	aacacttggt	ctcaaagcct	cttggcattt	tcgacaggat	840
cttgcaatgg	ggggaagatc	gtcgccttga				

(2) INFORMATION FOR SEQ ID NO:1171:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 289 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

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(A) NAME/KEY: peptide
(B) LOCATION: 1..289
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(D) OTHER INFORMATION: / Ceres Seq. ID 1597163

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO.1171.															
Met	Ala	Thr	Leu	Phe	Thr	Ala	Thr	Val	Pro	Ser	His	His	Arg	Phe	Val
1				5					10					15	
Ser	Pro	Ser	Gln	His	Pro	Lys	Gln	Ser	Leu	Leu	Ser	Gln	Ser	Leu	Ser
			20					25					30		
Val	Thr	Phe	Thr	Glu	Asn	Pro	Gln	Pro	Thr	Ala	Val	Val	Thr	Leu	Gln
		35					40					45			
Glu	Gln	Gln	Leu	Thr	Asp	Trp	Ile	Thr	Ser	Pro	Val	Thr	Arg	Arg	Phe
	50					55					60				
Gly	Ile	Gly	Ala	Gly	Phe	Thr	Trp	Ala	Gly	Phe	Leu	Ala	Phe	Gly	Val
65					70					75					80
Val	Ser	Glu	Gln	Met	Lys	Lys	Ser	Arg	Leu	Asp	Val	Phe	Gln	Glu	Glu
				85					90					95	
Asp	Asn	Thr	Arg	Gly	Leu	Glu	Lys	Gln	Glu	Glu	Ile	Ile	Leu	Pro	Asn
			100					105					110		
Gly	Ile	Arg	Tyr	Tyr	Asp	Leu	Gln	Val	Gly	Ser	Gly	Ala	Thr	Pro	Ser
		115					120					125			
Ser	Gly	Tyr	Leu	Val	Val	Phe	Asp	Val	Lys	Gly	Gln	Val	His	Gly	Thr
	130					135					140				

[illegible]

(2) INFORMATION FOR SEQ ID NO:1172:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 205 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
  - (A) NAME/KEY: peptide
  - (B) LOCATION: 1..205
  - (D) OTHER INFORMATION: / Ceres Seq. ID 1597165
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

(x1) SEQUENCE DESCRIPTION: SEQ ID NO:1172:																
Met	Lys	Lys	Ser	Arg	Leu	Asp	Val	Phe	Gln	Glu	Glu	Asp	Asn	Thr	Arg	
1				5					10					15		
Gly	Leu	Glu	Lys	Gln	Glu	Glu	Ile	Ile	Leu	Pro	Asn	Gly	Ile	Arg	Tyr	
			20					25					30			
Tyr	Asp	Leu	Gln	Val	Gly	Ser	Gly	Ala	Thr	Pro	Ser	Ser	Gly	Tyr	Leu	
		35					40					45				
Val	Val	Phe	Asp	Val	Lys	Gly	Gln	Val	His	Gly	Thr	Glu	Gln	Val	Phe	
	50					55					60					
Val	Asp	Thr	Phe	Gly	Gly	Lys	Gly	Lys	Ser	Leu	Ala	Met	Val	Met	Asp	
65				70						75					80	
Ser	Arg	Pro	Tyr	Ser	Lys	Gly	Leu	Cys	Gln	Gly	Ile	Glu	His	Val	Leu	
				85					90					95		
Arg	Ser	Met	Lys	Ala	Gly	Gly	Lys	Arg	Arg	Val	Ile	Ile	Pro	Pro	Ser	
			100					105					110			
Leu	Gly	Phe	Gly	Asp	Arg	Asn	Val	Glu	Phe	Gly	Gln	Gly	Leu	Glu	Ile	
		115					120					125				
Pro	Pro	Ser	Ala	Thr	Leu	Asp	Tyr	Ile	Ile	Glu	Val	Asp	Thr	Val	Tyr	
		130				135					140					
Cys	Phe	Gln	Thr	Ile	Val	Val	Tyr	Gln	Phe	Ile	Phe	Phe	Val	Ile	Thr	
145				150						155				160		
Ala	Leu	Phe	Lys	Phe	Asp	Gln	Val	Thr	Asp	Phe	Ala	Gly	Ser	Thr	Asn	
			165					170						175		
Phe	Val	Ile	Leu	Ala	Val	Leu	Thr	Leu	Val	Leu	Lys	Ala	Ser	Trp	His	
			180					185					190			
Phe	Arg	Gln	Asp	Leu	Ala	Met	Gly	Gly	Arg	Ser	Ser	Leu				
		195					200					205				

(2) INFORMATION FOR SEQ ID NO:1173:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 600 base pairs

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:							
atgggggaagg	gtaaccagtt	ggaagaagtc	agctacatca	acaacaacca	gggtggctac		60
aaaggataca	acaacttcaa	aaccaacaat	cccaacctct	cctaccgtag	caccagcgtt		120
gctaattctc	aggatcaggt	gtatcccgtg	caacaacaac	aaggtcgaa	caaacctttt		180
gttctctaca	accaaggttt	cgttcctaag	cagcaatttn	tggggaacta	ccagccgcca		240
ccaccacctg	gatttgaca	tcagcaaaaac	catgatggaa	acactgaata	ccaaagtccg		300
atacttagag	ggacattctg	catcttcttc	agctccaaca	caaacaagcc	aaactacca		360
ggcaaagcag	ttcagaatct	aaaagaatat	gctcatgcta	ttacactgcg	tagtggaaaa		420
gcacttccaa	ctagggagga	accaaagacg	gtcactgagg	acagtgaaga	tcaagatgga		480
gaggatttaa	gtctcgagca	accactcgac	ntgtcactcg	agcancact	cgaccaacca		540
ctcgagcaac	cactcgaccg	tgctactcaa	cctatcttcc	cagcagtatc	atcaacgtag		600

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:

(A) LENGTH: 126 amino acids

- (B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
(A) NAME/KEY: peptide  
(B) LOCATION: 1..126  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597173  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:

Trp Gly Arg Val Thr Ser Trp Lys Lys Ser Ala Thr Ser Thr Thr Thr  
1 5 10 15  
Arg Val Ala Thr Lys Asp Thr Thr Thr Ser Lys Pro Thr Ile Pro Thr  
20 25 30  
Ser Pro Thr Val Ala Pro Ala Leu Leu Ile Leu Arg Ile Arg Cys Ile  
35 40 45  
Pro Cys Asn Asn Asn Lys Val Arg Thr Asn Leu Leu Phe Ser Thr Thr  
50 55 60  
Lys Val Ser Phe Leu Ser Ser Asn Xaa Trp Gly Thr Thr Ser Arg His  
65 70 75 80  
His His Leu Asp Leu His Ile Ser Lys Thr Met Met Glu Thr Leu Asn  
85 90 95  
Thr Lys Val Arg Tyr Leu Glu Gly His Ser Ala Ser Ser Ser Ala Pro  
100 105 110  
Thr Gln Thr Ser Gln Thr Thr Gln Ala Lys Gln Phe Arg Ile  
115 120 125

(2) INFORMATION FOR SEQ ID NO:1176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1026 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -  
(B) LOCATION: 1..1026  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597192

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

gaagaacccc gtaacgttta tctcgggttg tgttrctgatg gggttcaatcc atttggcatg 60  
tctcgtaatc attcgttgtg gcctgtgatc ctaactcctt ataattttacc ccctgggtatg 120  
tgcatgaata cagagtactt atttcttacc attctgaatt ctggtccaaa tcatcctcga 180  
gctagtcttg atgtcttcct ccaacctctt attgaggagt taaaagagtt gtggtctact 240  
ggagtcgatg cgtacgatgt ttcattgagt cagaatttta atctaaaagc agtactacta 300  
tgagcgatta gcgactttcc ggcgtatagc atgttatcag gatggactac tcagttttgt 360  
aaatgtagta tgttcgaaga ttatctttct gcgaaatc catgcttgcc cgaaaaagaa 420  
ctctacgcga gaagagcgaa agaatatcat ctatgggtta aagaatatgt aacatactgg 480  
aacactactt ctccatttcc tacttgggtt caagagattg tgcaaggacc tttgaacaag 540  
gttaaaactt ggccaatgta tttcacaaga ggatatttgt ttcatacgca aaatcacggc 600  
gctggacgaa agacatgtaa ctatggggtc tgtgttaaag gtggaaatta cgctgattca 660  
tctgatgaag cggattttcta cggtacctta actgataata tagaactcga gtatgaggat 720  
caagtttgtt atattccgta tccatatacg aagaaaccaa agaacatttg gctcaatggt 780  
ctaaaagtca atccgagggg aaatatttct ggagaatatg aaaacaatga tccaactctt 840  
ttgcaaacag aaaatgatga tgatgttttg ctactacaa ttgaagatct tgttcttgaa 900  
actccggtag ccaacttaaa cccaataatc cttgattacg atgtcgggga tgctgaacca 960  
gaagacgaat tccgatgtaa tttatcgtcc tcggacgaag atgaagtaga agatgaagat 1020  
gtataa

(2) INFORMATION FOR SEQ ID NO:1177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

00669930-101300

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

(2) INFORMATION FOR SEQ ID NO:1178:

(ii) MOLECULE TYPE: peptide

(A) NAME/KEY: peptide

(B) LOCATION: 1..322

(D) OTHER INFORMATION: / Ceres Seq. ID 1597194

[illegible]

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

Met	Ser	Arg	Asn	His	Ser	Leu	Trp	Pro	Val	Ile	Leu	Thr	Pro	Tyr	Asn	
1				5					10					15		
Leu	Pro	Pro	Gly	Met	Cys	Met	Asn	Thr	Glu	Tyr	Leu	Phe	Leu	Thr	Ile	
			20					25					30			
Leu	Asn	Ser	Gly	Pro	Asn	His	Pro	Arg	Ala	Ser	Leu	Asp	Val	Phe	Leu	
		35					40					45				
Gln	Pro	Leu	Ile	Glu	Glu	Leu	Lys	Glu	Leu	Trp	Ser	Thr	Gly	Val	Asp	
	50					55					60					
Ala	Tyr	Asp	Val	Ser	Leu	Ser	Gln	Asn	Phe	Asn	Leu	Lys	Ala	Val	Leu	
65					70				75						80	
Leu	Trp	Thr	Ile	Ser	Asp	Phe	Pro	Ala	Tyr	Ser	Met	Leu	Ser	Gly	Trp	
				85					90					95		
Thr	Thr	Gln	Phe	Cys	Lys	Cys	Ser	Met	Phe	Glu	Asp	Tyr	Leu	Ser	Ala	
		100						105					110			
Lys	Tyr	Pro	Cys	Leu	Pro	Glu	Lys	Glu	Leu	Tyr	Ala	Arg	Arg	Ala	Lys	
		115					120					125				
Glu	Tyr	His	Leu	Trp	Val	Lys	Glu	Tyr	Val	Thr	Tyr	Trp	Asn	Thr	Thr	
	130					135					140					
Ser	Pro	Phe	Pro	Thr	Trp	Val	Gln	Glu	Ile	Val	Gln	Gly	Pro	Leu	Asn	
145					150				155						160	
Lys	Val	Lys	Thr	Trp	Pro	Met	Tyr	Phe	Thr	Arg	Gly	Tyr	Leu	Phe	His	
				165					170					175		
Thr	Gln	Asn	His	Gly	Ala	Gly	Arg	Lys	Thr	Cys	Asn	Tyr	Gly	Val	Cys	
		180						185					190			
Val	Lys	Gly	Gly	Asn	Tyr	Ala	Asp	Ser	Ser	Asp	Glu	Ala	Asp	Phe	Tyr	
		195					200					205				
Gly	Thr	Leu	Thr	Asp	Asn	Ile	Glu	Leu	Glu	Tyr	Glu	Asp	Gln	Val	Cys	
	210					215					220					
Tyr	Ile	Pro	Tyr	Pro	Tyr	Thr	Lys	Lys	Pro	Lys	Asn	Ile	Trp	Leu	Asn	
225					230					235					240	
Val	Leu	Lys	Val	Asn	Pro	Arg	Gly	Asn	Ile	Ser	Gly	Glu	Tyr	Glu	Asn	
				245					250					255		
Asn	Asp	Pro	Thr	Leu	Leu	Gln	Thr	Glu	Asn	Asp	Asp	Asp	Val	Leu	Leu	
			260					265					270			
Thr	Thr	Ile	Glu	Asp	Leu	Val	Leu	Glu	Thr	Pro	Val	Ala	Asn	Leu	Asn	
		275					280					285				
Pro	Ile	Ile	Leu	Asp	Tyr	Asp	Val	Gly	Asp	Ala	Glu	Pro	Glu	Asp	Glu	
	290					295					300					
Phe	Arg	Cys	Asn	Leu	Ser	Ser	Ser	Asp	Glu	Asp	Glu	Val	Glu	Asp	Glu	
305				310						315					320	
Asp	Val															

(2) INFORMATION FOR SEQ ID NO:1179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..302
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597195

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

Met	Cys	Met	Asn	Thr	Glu	Tyr	Leu	Phe	Leu	Thr	Ile	Leu	Asn	Ser	Gly	
1			5						10					15		
Pro	Asn	His	Pro	Arg	Ala	Ser	Leu	Asp	Val	Phe	Leu	Gln	Pro	Leu	Ile	
		20						25				30				
Glu	Glu	Leu	Lys	Glu	Leu	Trp	Ser	Thr	Gly	Val	Asp	Ala	Tyr	Asp	Val	
		35					40					45				

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

[illegible]

(A) NAME/KEY: -

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99																																																																																																																																																												
0	00000000	00000001	00000010	00000011	00000100	00000101	00000110	00000111	00001000	00001001	00001010	00001011	00001100	00001101	00001110	00001111	00010000	00010001	00010010	00010011	00010100	00010101	00010110	00010111	00011000	00011001	00011010	00011011	00011100	00011101	00011110	00011111	00100000	00100001	00100010	00100011	00100100	00100101	00100110	00100111	00101000	00101001	00101010	00101011	00101100	00101101	00101110	00101111	00110000	00110001	00110010	00110011	00110100	00110101	00110110	00110111	00111000	00111001	00111010	00111011	00111100	00111101	00111110	00111111	01000000	01000001	01000010	01000011	01000100	01000101	01000110	01000111	01001000	01001001	01001010	01001011	01001100	01001101	01001110	01001111	01010000	01010001	01010010	01010011	01010100	01010101	01010110	01010111	01011000	01011001	01011010	01011011	01011100	01011101	01011110	01011111	01100000	01100001	01100010	01100011	01100100	01100101	01100110	01100111	01101000	01101001	01101010	01101011	01101100	01101101	01101110	01101111	01110000	01110001	01110010	01110011	01110100	01110101	01110110	01110111	01111000	01111001	01111010	01111011	01111100	01111101	01111110	01111111	10000000	10000001	10000010	10000011	10000100	10000101	10000110	10000111	10001000	10001001	10001010	10001011	10001100	10001101	10001110	10001111	10010000	10010001	10010010	10010011	10010100	10010101	10010110	10010111	10011000	10011001	10011010	10011011	10011100	10011101	10011110	10011111	10100000	10100001	10100010	10100011	10100100	10100101	10100110	10100111	10101000	10101001	10101010	10101011	10101100	10101101	10101110	10101111	10110000	10110001	10110010	10110011	10110100	10110101	10110110	10110111	10111000	10111001	10111010	10111011	10111100	10111101	10111110	10111111	11000000	11000001	11000010	11000011	11000100	11000101	11000110	11000111	11001000	11001001	11001010	11001011	11001100	11001101	11001110	11001111	11010000	11010001	11010010	11010011	11010100	11010101	11010110	11010111	11011000	11011001	11011010	11011011	11011100	11011101	11011110	11011111	11100000	11100001	11100010	11100011	11100100	11100101	11100110	11100111	11101000	11101001	11101010	11101011	11101100	11101101	11101110	11101111	11110000	11110001	11110010	11110011	11110100	11110101	11110110	11110111	11111000	11111001	11111010	11111011	11111100	11111101	11111110	11111111



(D) OTHER INFORMATION: / Ceres Seq. ID 1597224

aacacaattt	gatacgcgtc	agtttgacca	gaggctgaat	gaagttctcg	atggacagga	60
tgagttcttc	acctcatatg	atgaggtcca	tgagagcttt	gatgccatgg	gtttgcaaga	120
gaatcttctt	aggggtatct	atgcttacgg	tttcgaaaag	ccttctgcta	ttcagcaaag	180
aggaattgta	cccttttgca	agggtcttga	tgtgatccag	caggcacagt	ctggtactgg	240
aaaaaccgcc	actttctgct	ctggtgtctt	gcagcagctt	gaatatgcc	ttctccagtg	300
ccaggctctc	gttttggctc	ccaccagaga	gcttgctcag	cagattgaga	aggctatgcg	360
tgcccttggt	gactaccaag	gtgtcaagg	tcatgctgt	gttggtgaa	ccagtgctcg	420
tnaggatcag	cgcattctcc	aggctggtgt	tcatgttgtc	gttggaactc	ctggtcgtgt	480
ttttgacatg	cttagaagac	aatctctccg	ccctgactgc	atcaagatgt	ttgtccttga	540
tgaagctgat	gaaatgctct	cccgtggttt	caaggatcag	atctatgaca	tattccagct	600
tctccacca	aagattcagg	ttggagtgtt	ctctgcgaca	atgcctccgg	aagctttgga	660
gatcacaagg	aaattcatga	gcaaaccagt	gagaatcttg	gtgaaacgtg	atgagctcac	720
acttgaaggn	tatcaagcaa	ttctacgtga	ancgtggaga	aagaagactg	gaangcttga	780
gactctctgc	gatctctacg	nagactctag	ccatcactca	gagtgtcatc	tttgtcaaca	840
ctcgtcgcaa	ggtcganctg	gctncacaga	caaaatgaga	agccgtgacc	acacagctctc	900
agcnnnctca	tgagacatg	gaccaaaaca	ccagagacat	catcatgaga	gagttcagg	960
cntgctcgt	ctcgtgttct	aa				

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ix) FEATURE:

(B) LOCATION: 1..326

(D) OTHER INFORMATION: / Ceres Seq. ID 1597225

Thr 1	Gln	Phe	Asp	Thr 5	Arg	Gln	Phe	Asp	Gln 10	Arg	Leu	Asn	Glu	Val 15	Leu
Asp	Gly	Gln	Asp 20	Glu	Phe	Phe	Thr	Ser 25	Tyr	Asp	Glu	Val 30	His	Glu	Ser
Phe	Asp	Ala	Met 35	Gly	Leu	Gln	Glu 40	Asn	Leu	Leu	Arg	Gly 45	Ile	Tyr	Ala
Tyr	Gly 50	Phe	Glu	Lys	Pro	Ser 55	Ala	Ile	Gln	Gln	Arg 60	Gly	Ile	Val	Pro
Phe 65	Cys	Lys	Gly	Leu	Asp 70	Val	Ile	Gln	Gln	Ala 75	Gln	Ser	Gly	Thr	Gly
Lys	Thr	Ala	Thr 85	Phe	Cys	Ser	Gly	Val 90	Leu	Gln	Gln	Leu	Asp 95	Tyr	Ala
Leu	Leu	Gln	Cys 100	Gln	Ala	Leu	Val	Leu 105	Ala	Pro	Thr	Arg	Glu 110	Leu	Ala
Gln	Gln	Ile 115	Glu	Lys	Val	Met	Arg 120	Ala	Leu	Gly	Asp	Tyr 125	Gln	Gly	Val
Lys 130	Val	His	Ala	Cys	Val	Gly 135	Gly	Thr	Ser	Val	Arg 140	Xaa	Asp	Gln	Arg
Ile 145	Leu	Gln	Ala	Gly	Val 150	His	Val	Val	Val	Gly 155	Thr	Pro	Gly	Arg	Val
Phe	Asp	Met	Leu 165	Arg	Arg	Gln	Ser	Leu 170	Arg	Pro	Asp	Cys	Ile	Lys 175	Met
Phe	Val	Leu	Asp 180	Glu	Ala	Asp	Glu	Met 185	Leu	Ser	Arg	Gly 190	Phe	Lys	Asp
Gln	Ile 195	Tyr	Asp	Ile	Phe	Gln 200	Leu	Leu	Pro	Pro	Lys	Ile 205	Gln	Val	Gly
Val	Phe 210	Ser	Ala	Thr	Met	Pro 215	Pro	Glu	Ala	Leu	Glu 220	Ile	Thr	Arg	Lys
Phe	Met	Ser	Lys	Pro	Val	Arg	Ile	Leu	Val	Lys	Arg	Asp	Glu	Leu	Thr

[illegible]

225 230 235 240  
Leu Glu Xaa Tyr Gln Ala Ile Leu Arg Glu Xaa Trp Arg Lys Lys Thr  
245 250 255  
Gly Xaa Leu Glu Thr Leu Cys Asp Leu Tyr Xaa Asp Ser Ser His His  
260 265 270  
Ser Glu Cys His Leu Cys Gln His Ser Ser Gln Gly Arg Xaa Gly Xaa  
275 280 285  
Thr Asp Lys Met Arg Ser Arg Asp His Thr Val Ser Xaa Xaa Ser Trp  
290 295 300  
Arg His Gly Pro Lys His Gln Arg His His His Glu Arg Val Gln Val  
305 310 315 320  
Xaa Ala Arg Leu Val Phe  
325

(2) INFORMATION FOR SEQ ID NO:1186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..291
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597226

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

Met Gly Leu Gln Glu Asn Leu Leu Arg Gly Ile Tyr Ala Tyr Gly Phe  
1 5 10 15  
Glu Lys Pro Ser Ala Ile Gln Gln Arg Gly Ile Val Pro Phe Cys Lys  
20 25 30  
Gly Leu Asp Val Ile Gln Gln Ala Gln Ser Gly Thr Gly Lys Thr Ala  
35 40 45  
Thr Phe Cys Ser Gly Val Leu Gln Gln Leu Asp Tyr Ala Leu Leu Gln  
50 55 60  
Cys Gln Ala Leu Val Leu Ala Pro Thr Arg Glu Leu Ala Gln Gln Ile  
65 70 75 80  
Glu Lys Val Met Arg Ala Leu Gly Asp Tyr Gln Gly Val Lys Val His  
85 90 95  
Ala Cys Val Gly Thr Ser Val Arg Xaa Asp Gln Arg Ile Leu Gln  
100 105 110  
Ala Gly Val His Val Val Val Gly Thr Pro Gly Arg Val Phe Asp Met  
115 120 125  
Leu Arg Arg Gln Ser Leu Arg Pro Asp Cys Ile Lys Met Phe Val Leu  
130 135 140  
Asp Glu Ala Asp Glu Met Leu Ser Arg Gly Phe Lys Asp Gln Ile Tyr  
145 150 155 160  
Asp Ile Phe Gln Leu Leu Pro Pro Lys Ile Gln Val Gly Val Phe Ser  
165 170 175  
Ala Thr Met Pro Pro Glu Ala Leu Glu Ile Thr Arg Lys Phe Met Ser  
180 185 190  
Lys Pro Val Arg Ile Leu Val Lys Arg Asp Glu Leu Thr Leu Glu Xaa  
195 200 205  
Tyr Gln Ala Ile Leu Arg Glu Xaa Trp Arg Lys Lys Thr Gly Xaa Leu  
210 215 220  
Glu Thr Leu Cys Asp Leu Tyr Xaa Asp Ser Ser His His Ser Glu Cys  
225 230 235 240  
His Leu Cys Gln His Ser Ser Gln Gly Arg Xaa Gly Xaa Thr Asp Lys  
245 250 255  
Met Arg Ser Arg Asp His Thr Val Ser Xaa Xaa Ser Trp Arg His Gly  
260 265 270  
Pro Lys His Gln Arg His His His Glu Arg Val Gln Val Xaa Ala Arg  
275 280 285

00669980-101300

Leu Val Phe  
290

(2) INFORMATION FOR SEQ ID NO:1187:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..208
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597227

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

Met Arg Ala Leu Gly Asp Tyr Gln Gly Val Lys Val His Ala Cys Val  
1 5 10 15  
Gly Gly Thr Ser Val Arg Xaa Asp Gln Arg Ile Leu Gln Ala Gly Val  
20 25 30  
His Val Val Val Gly Thr Pro Gly Arg Val Phe Asp Met Leu Arg Arg  
35 40 45  
Gln Ser Leu Arg Pro Asp Cys Ile Lys Met Phe Val Leu Asp Glu Ala  
50 55 60  
Asp Glu Met Leu Ser Arg Gly Phe Lys Asp Gln Ile Tyr Asp Ile Phe  
65 70 75 80  
Gln Leu Leu Pro Pro Lys Ile Gln Val Gly Val Phe Ser Ala Thr Met  
85 90 95  
Pro Pro Glu Ala Leu Glu Ile Thr Arg Lys Phe Met Ser Lys Pro Val  
100 105 110  
Arg Ile Leu Val Lys Arg Asp Glu Leu Thr Leu Glu Xaa Tyr Gln Ala  
115 120 125  
Ile Leu Arg Glu Xaa Trp Arg Lys Lys Thr Gly Xaa Leu Glu Thr Leu  
130 135 140  
Cys Asp Leu Tyr Xaa Asp Ser Ser His His Ser Glu Cys His Leu Cys  
145 150 155 160  
Gln His Ser Ser Gln Gly Arg Xaa Gly Xaa Thr Asp Lys Met Arg Ser  
165 170 175  
Arg Asp His Thr Val Ser Xaa Xaa Ser Trp Arg His Gly Pro Lys His  
180 185 190  
Gln Arg His His Glu Arg Val Gln Val Xaa Ala Arg Leu Val Phe  
195 200 205

(2) INFORMATION FOR SEQ ID NO:1188:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..342
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597228

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

atgaagtttg acatcagaga agcttcaggg aaatcaacaa caggagttca gaacatnaat 60  
attgatgaag nngcagaagc tggaacccca ccaagagtta actatacttc tcaacttagc 120  
aagctgaaga ggacttttga ccacaagaag agagcaacag aaaggctagc tcagactgga 180  
gatactacaa aagatgactg ctctgtaaga gtcaagctta gtgaattaaa acaagctcac 240  
ttgggaggaa gtcccatgtc tatccaggnt tgtctcattg atcattataa agtcaatggt 300  
cgagtnaact caaccaagt caagaagat ctcagccggt ga

(2) INFORMATION FOR SEQ ID NO:1189:

0969980-101300

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 113 amino acids  
    (B) TYPE: amino acid  
    (C) STRANDEDNESS:  
    (D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
    (A) NAME/KEY: peptide  
    (B) LOCATION: 1..113  
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597229  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

Met Lys Phe Asp Ile Arg Glu Ala Ser Gly Lys Ser Thr Thr Gly Val  
1                  5                  10                  15  
Gln Asn Xaa Asn Ile Asp Glu Xaa Ala Glu Ala Gly Thr Pro Pro Arg  
                  20                  25                  30  
Val Asn Tyr Thr Ser Gln Leu Ser Lys Leu Lys Arg Thr Phe Asp His  
                  35                  40                  45  
Lys Lys Arg Ala Thr Glu Arg Leu Ala Gln Thr Gly Asp Pro Thr Lys  
                  50                  55                  60  
Asp Asp Cys Ser Val Arg Val Lys Leu Ser Glu Leu Lys Gln Ala His  
65                  70                  75                  80  
Leu Gly Gly Ser Pro Met Ser Ile Gln Xaa Cys Leu Ile Asp His Tyr  
                  85                  90                  95  
Lys Val Asn Gly Arg Xaa Asn Ser Asn Gln Val Lys Lys Asp Leu Ser  
                  100                  105                  110  
Arg

- (2) INFORMATION FOR SEQ ID NO:1190:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 1032 base pairs  
        (B) TYPE: nucleic acid  
        (C) STRANDEDNESS: single  
        (D) TOPOLOGY: linear  
    (ii) MOLECULE TYPE: DNA (genomic)  
    (ix) FEATURE:  
        (A) NAME/KEY: -  
        (B) LOCATION: 1..1032  
        (D) OTHER INFORMATION: / Ceres Seq. ID 1597257  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

atngcntgtn atcattnctg cttingtcn cactngcctg ctatngccat ttctgctttt 60  
agtttcattt catttcgggtt attgcatact aggactgtta gaaccaacca actttctact 120  
tggtcttgact tagagctttc tgatcatatc tcatctgttt gcgtcacact gaattggatt 180  
gacatcctaa aatactacaa cgacaggata gtaccttgca acctgcttta cagacgcac 240  
tctgattcgt ctgttatagc ccongctgct atctgttgca tgcatacacg gtcagaagga 300  
aatcagaacc tcctattcaa cgataacatc gaccgtattg ctgcgcaact aagagaacag 360  
acagaaaccg acacaatggc tgacgttgta gatgagcaag agcaacctac caacattggt 420  
gctggtgact tccctcacia ccacaaccag cgtcatggaa ttgttccacc tccagtacag 480  
aacaacaact ttgagatcaa aagcggcttc attgctatgg ttcaaggga caagtttcat 540  
ggcctgccaa tggaggatcc gctagatcat ctngacgagt tngaaagnct ctgtgncctn 600  
actaaaatca atggagttag tgaagatggg tttnnnanttc gcttgtttcc attctcactt 660  
ggagataaag cccatctgtg ggaaaagacg ctaccccaga attcaatcac aacctgggat 720  
gactgcaaaa aggccttctt ggcaaaattc ttttccaact ccagaactgc aagactccgg 780  
aatgagatat ccgattttac tcagaagcaa aatgaaagct tctgtgaagc ttgggagcgc 840  
ttaaagggtt atcaaacc aa atgccctcat caccgattta agcangctnc tctnctcagc 900  
acactctata gagncgtctn gcctaagata aggatactgc ttgacaccgc ttcaaattggg 960  
aattttttga agaaggatgt tgaagaagga tggtagctag tngaaaanct ttgctcagtc 1020  
gnatggcaat na

- (2) INFORMATION FOR SEQ ID NO:1191:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 343 amino acids  
        (B) TYPE: amino acid

DOCKET# 08668960

- (C) STRANDEDNESS:  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
    (A) NAME/KEY: peptide  
    (B) LOCATION: 1..343  
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597258  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

Xaa Xaa Cys Xaa His Xaa Cys Xaa Val Xaa His Xaa Pro Ala Xaa Ala  
1                  5                  10                  15  
Ile Ser Ala Phe Ser Phe Ile Ser Phe Arg Leu Leu His Thr Arg Thr  
                  20                  25                  30  
Val Arg Thr Asn Gln Leu Ser Thr Trp Leu Asp Leu Glu Leu Ser Asp  
                  35                  40                  45  
His Ile Ser Ser Val Cys Val Thr Leu Asn Trp Ile Asp Ile Leu Lys  
                  50                  55                  60  
Tyr Tyr Asn Asp Arg Ile Val Pro Cys Asn Leu Leu Tyr Arg Arg Ile  
65                  70                  75                  80  
Ser Asp Ser Ser Val Ile Ala Xaa Ala Ala Ile Cys Cys Met His Thr  
                  85                  90                  95  
Arg Ser Glu Gly Asn Gln Asn Leu Leu Phe Asn Asp Asn Ile Asp Arg  
                  100                  105                  110  
Ile Ala Arg Gln Leu Arg Glu Gln Thr Glu Thr Asp Thr Met Ala Asp  
                  115                  120                  125  
Val Val Asp Glu Gln Glu Gln Pro Thr Asn Ile Gly Ala Gly Asp Phe  
130                  135                  140  
Pro His Asn His Asn Gln Arg His Gly Ile Val Pro Pro Pro Val Gln  
145                  150                  155                  160  
Asn Asn Asn Phe Glu Ile Lys Ser Gly Leu Ile Ala Met Val Gln Gly  
                  165                  170                  175  
Asn Lys Phe His Gly Leu Pro Met Glu Asp Pro Leu Asp His Xaa Asp  
                  180                  185                  190  
Glu Xaa Glu Xaa Leu Cys Xaa Xaa Thr Lys Ile Asn Gly Val Ser Glu  
                  195                  200                  205  
Asp Gly Xaa Xaa Xaa Arg Leu Phe Pro Phe Ser Leu Gly Asp Lys Ala  
210                  215                  220  
His Leu Trp Glu Lys Thr Leu Pro Gln Asn Ser Ile Thr Thr Trp Asp  
225                  230                  235                  240  
Asp Cys Lys Lys Ala Phe Leu Ala Lys Phe Phe Ser Asn Ser Arg Thr  
                  245                  250                  255  
Ala Arg Leu Arg Asn Glu Ile Ser Gly Phe Thr Gln Lys Gln Asn Glu  
                  260                  265                  270  
Ser Phe Cys Glu Ala Trp Glu Arg Phe Lys Gly Tyr Gln Thr Lys Cys  
275                  280                  285  
Pro His His Gly Phe Lys Xaa Ala Xaa Xaa Leu Ser Thr Leu Tyr Arg  
290                  295                  300  
Xaa Val Xaa Pro Lys Ile Arg Ile Leu Leu Asp Thr Ala Ser Asn Gly  
305                  310                  315                  320  
Asn Phe Leu Lys Lys Asp Val Glu Glu Gly Trp Xaa Leu Xaa Glu Xaa  
                  325                  330                  335  
Leu Cys Ser Val Xaa Trp Gln  
340

- (2) INFORMATION FOR SEQ ID NO:1192:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 250 amino acids  
        (B) TYPE: amino acid  
        (C) STRANDEDNESS:  
        (D) TOPOLOGY: linear  
    (ii) MOLECULE TYPE: peptide  
    (ix) FEATURE:  
        (A) NAME/KEY: peptide

09689980-101300

(B) LOCATION: 1..250

(D) OTHER INFORMATION: / Ceres Seq. ID 1597259

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

Met His Thr Arg Ser Glu Gly Asn Gln Leu Phe Asn Asp Asn  
1 5 10 15  
Ile Asp Arg Ile Ala Arg Gln Leu Arg Glu Gln Thr Glu Thr Asp Thr  
20 25 30  
Met Ala Asp Val Val Asp Glu Gln Glu Gln Pro Thr Asn Ile Gly Ala  
35 40 45  
Gly Asp Phe Pro His Asn His Asn Gln Arg His Gly Ile Val Pro Pro  
50 55 60  
Pro Val Gln Asn Asn Asn Phe Glu Ile Lys Ser Gly Leu Ile Ala Met  
65 70 75 80  
Val Gln Gly Asn Lys Phe His Gly Leu Pro Met Glu Asp Pro Leu Asp  
85 90 95  
His Xaa Asp Glu Xaa Glu Xaa Leu Cys Xaa Xaa Thr Lys Ile Asn Gly  
100 105 110  
Val Ser Glu Asp Gly Xaa Xaa Xaa Arg Leu Phe Pro Phe Ser Leu Gly  
115 120 125  
Asp Lys Ala His Leu Trp Glu Lys Thr Leu Pro Gln Asn Ser Ile Thr  
130 135 140  
Thr Trp Asp Asp Cys Lys Lys Ala Phe Leu Ala Lys Phe Phe Ser Asn  
145 150 155 160  
Ser Arg Thr Ala Arg Leu Arg Asn Glu Ile Ser Gly Phe Thr Gln Lys  
165 170 175  
Gln Asn Glu Ser Phe Cys Glu Ala Trp Glu Arg Phe Lys Gly Tyr Gln  
180 185 190  
Thr Lys Cys Pro His His Gly Phe Lys Xaa Ala Xaa Xaa Leu Ser Thr  
195 200 205  
Leu Tyr Arg Xaa Val Xaa Pro Lys Ile Arg Ile Leu Leu Asp Thr Ala  
210 215 220  
Ser Asn Gly Asn Phe Leu Lys Lys Asp Val Glu Glu Gly Trp Xaa Leu  
225 230 235 240  
Xaa Glu Xaa Leu Cys Ser Val Xaa Trp Gln  
245 250

(2) INFORMATION FOR SEQ ID NO:1193:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..218

(D) OTHER INFORMATION: / Ceres Seq. ID 1597260

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

Met Ala Asp Val Val Asp Glu Gln Glu Gln Pro Thr Asn Ile Gly Ala  
1 5 10 15  
Gly Asp Phe Pro His Asn His Asn Gln Arg His Gly Ile Val Pro Pro  
20 25 30  
Pro Val Gln Asn Asn Asn Phe Glu Ile Lys Ser Gly Leu Ile Ala Met  
35 40 45  
Val Gln Gly Asn Lys Phe His Gly Leu Pro Met Glu Asp Pro Leu Asp  
50 55 60  
His Xaa Asp Glu Xaa Glu Xaa Leu Cys Xaa Xaa Thr Lys Ile Asn Gly  
65 70 75 80  
Val Ser Glu Asp Gly Xaa Xaa Xaa Arg Leu Phe Pro Phe Ser Leu Gly  
85 90 95  
Asp Lys Ala His Leu Trp Glu Lys Thr Leu Pro Gln Asn Ser Ile Thr  
100 105 110

09669800-101300

Thr Trp Asp Asp Cys Lys Lys Ala Phe Leu Ala Lys Phe Phe Ser Asn  
115 120 125  
Ser Arg Thr Ala Arg Leu Arg Asn Glu Ile Ser Gly Phe Thr Gln Lys  
130 135 140  
Gln Asn Glu Ser Phe Cys Glu Ala Trp Glu Arg Phe Lys Gly Tyr Gln  
145 150 155 160  
Thr Lys Cys Pro His His Gly Phe Lys Xaa Ala Xaa Xaa Leu Ser Thr  
165 170 175  
Leu Tyr Arg Xaa Val Xaa Pro Lys Ile Arg Ile Leu Leu Asp Thr Ala  
180 185 190  
Ser Asn Gly Asn Phe Leu Lys Lys Asp Val Glu Glu Gly Trp Xaa Leu  
195 200 205  
Xaa Glu Xaa Leu Cys Ser Val Xaa Trp Gln  
210 215

(2) INFORMATION FOR SEQ ID NO:1194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 591 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..591
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597261

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

atgtcaacaa gatcgccact cgcaaggatt caacctacaa gaacgttggt tggacttccc	60
ngtggctaca aaggtcgcgga ctttntcat cgcngaggac ctagtccat ctctccngc	120
aattctcaag attctttgaa caaagatggt tgctttcacc ntggagtga cactactcgca	180
gctacttctc caaatgatac attttatgac ggaggatttc ctatgaaatc aggaacatca	240
atgtcgactc cttttgttgc aggaattgta gcactcctta agtctttgca cctcattgg	300
tctccggccg ccattagatc tgctattggt actacagctt ggagaacaga tccatccgag	360
aaagccgcgga aacccgggtct tgtttacgat atgggagtta acgattatgt tctntatttg	420
tgctccgttg gttacacaga ttcattccatt actagacttg tccgcaagaa gacggtttgt	480
gcaaacccta aaccttcagt tcttgacctc aaattgcctt caatcacaat cccaaacctt	540
gcaaaaanga agttattatc actagaaccg ttaccaacgt tggaccagta g	

(2) INFORMATION FOR SEQ ID NO:1195:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..196
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597262

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

Met Ser Thr Arg Ser Pro Leu Ala Arg Ile Gln Pro Thr Arg Thr Leu	
1 5 10 15	
Val Gly Leu Pro Xaa Gly Tyr Lys Gly Arg Asp Phe Xaa His Arg Xaa	
20 25 30	
Gly Pro Ser Ser Ile Ser Pro Xaa Asn Ser Gln Asp Ser Leu Asn Lys	
35 40 45	
Asp Val Cys Phe His Xaa Gly Val Asn Ile Leu Ala Ala Thr Ser Pro	
50 55 60	
Asn Asp Thr Phe Tyr Asp Gly Gly Phe Pro Met Lys Ser Gly Thr Ser	
65 70 75 80	
Met Ser Thr Pro Phe Val Ala Gly Ile Val Ala Leu Leu Lys Ser Leu	
85 90 95	
His Pro His Trp Ser Pro Ala Ala Ile Arg Ser Ala Ile Val Thr Thr	

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(2) INFORMATION FOR SEQ ID NO:1198:

- [illegible]

- [illegible]

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:  
Met Glu Glu Lys Gln Ile Phe Gln Asn Val Gln Met Ser Val Asn Phe

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:															
Ile	Glu	Ser	Leu	Gly	Ser	Leu	Cys	Val	Cys	Lys	Ser	Asp	Ala	Glu	Tyr
1			5						10					15	
Phe	Ala	Lys	Ala	Ala	Ala	Ser	Arg	Asp	Ser	Glu	Met	Ala	Thr	Glu	Asp
			20					25					30		
Val	Gln	Asp	Pro	Arg	Ile	Ala	Lys	Ile	Ala	Ser	Ser	Ile	Arg	Val	Ile
		35					40					45			
Pro	Asp	Phe	Pro	Lys	Pro	Gly	Ile	Met	Phe	Gln	Asp	Ile	Thr	Thr	Leu
	50					55					60				
Leu	Leu	Asp	Thr	Glu	Ala	Phe	Lys	Asp	Thr	Ile	Ala	Leu	Phe	Val	Asp
65					70					75					80
Arg	Tyr	Lys	Asp	Lys	Gly	Ile	Ser	Val	Val	Ala	Gly	Val	Glu	Ala	Arg
				85					90					95	
Gly	Phe	Ile	Phe	Gly	Pro	Pro	Ile	Ala	Leu	Ala	Ile	Gly	Ala	Lys	Phe
			100					105					110		
Val	Pro	Met	Arg	Thr	Pro	Lys	Lys	Leu	Pro	Gly	Lys	Val	Ile	Ser	Glu
		115					120					125			
Glu	Tyr	Ser	Leu	Glu	Tyr	Gly	Pro	Asp	Thr	Ile	Glu	Met	His	Val	Gly
	130					135					140				

Ala Val Glu Pro Gly Glu Arg Ala Ile Ile Ile Asp Xaa Leu Ile Ala  
145 150 155 160  
Thr Gly Gly Thr Leu Ala Ala Ala Ile Arg Leu Leu Glu Arg Val Gly  
165 170 175  
Val Xaa Ile Val Glu Cys Ala Cys Val Ile Glu Leu Pro Glu Leu Lys  
180 185 190  
Gly Lys Glu Lys Leu Gly Glu Thr Ser Leu Phe Val Leu Val Lys Ser  
195 200 205  
Ala Ala  
210

(2) INFORMATION FOR SEQ ID NO:1203:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 183 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..183

(D) OTHER INFORMATION: / Ceres Seq. ID 1597287

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:

Met Ala Thr Glu Asp Val Gln Asp Pro Arg Ile Ala Lys Ile Ala Ser  
1 5 10 15  
Ser Ile Arg Val Ile Pro Asp Phe Pro Lys Pro Gly Ile Met Phe Gln  
20 25 30  
Asp Ile Thr Thr Leu Leu Leu Asp Thr Glu Ala Phe Lys Asp Thr Ile  
35 40 45  
Ala Leu Phe Val Asp Arg Tyr Lys Asp Lys Gly Ile Ser Val Val Ala  
50 55 60  
Gly Val Glu Ala Arg Gly Phe Ile Phe Gly Pro Pro Ile Ala Leu Ala  
65 70 75 80  
Ile Gly Ala Lys Phe Val Pro Met Arg Thr Pro Lys Lys Leu Pro Gly  
85 90 95  
Lys Val Ile Ser Glu Glu Tyr Ser Leu Glu Tyr Gly Pro Asp Thr Ile  
100 105 110  
Glu Met His Val Gly Ala Val Glu Pro Gly Glu Arg Ala Ile Ile Ile  
115 120 125  
Asp Xaa Leu Ile Ala Thr Gly Gly Thr Leu Ala Ala Ala Ile Arg Leu  
130 135 140  
Leu Glu Arg Val Gly Val Xaa Ile Val Glu Cys Ala Cys Val Ile Glu  
145 150 155 160  
Leu Pro Glu Leu Lys Gly Lys Glu Lys Leu Gly Glu Thr Ser Leu Phe  
165 170 175  
Val Leu Val Lys Ser Ala Ala  
180

(2) INFORMATION FOR SEQ ID NO:1204:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 154 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..154

(D) OTHER INFORMATION: / Ceres Seq. ID 1597288

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:

Met Phe Gln Asp Ile Thr Thr Leu Leu Leu Asp Thr Glu Ala Phe Lys  
1 5 10 15  
Asp Thr Ile Ala Leu Phe Val Asp Arg Tyr Lys Asp Lys Gly Ile Ser

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20 25 30  
Val Val Ala Gly Val Glu Ala Arg Gly Phe Ile Phe Gly Pro Pro Ile  
35 40 45  
Ala Leu Ala Ile Gly Ala Lys Phe Val Pro Met Arg Thr Pro Lys Lys  
50 55 60  
Leu Pro Gly Lys Val Ile Ser Glu Glu Tyr Ser Leu Glu Tyr Gly Pro  
65 70 75 80  
Asp Thr Ile Glu Met His Val Gly Ala Val Glu Pro Gly Glu Arg Ala  
85 90 95  
Ile Ile Ile Asp Xaa Leu Ile Ala Thr Gly Gly Thr Leu Ala Ala Ala  
100 105 110  
Ile Arg Leu Leu Glu Arg Val Gly Val Xaa Ile Val Glu Cys Ala Cys  
115 120 125  
Val Ile Glu Leu Pro Glu Leu Lys Gly Lys Glu Lys Leu Gly Glu Thr  
130 135 140  
Ser Leu Phe Val Leu Val Lys Ser Ala Ala  
145 150

(2) INFORMATION FOR SEQ ID NO:1205:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..365
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597313

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:

taagcttcag agtgaggcog ttcgtgaagc catcactact atcacaggga aatccgaggc	60
aaagaaacgt aactttgtcg agactattga gctccagatc ggtctgaaga actatgaccc	120
tcaaaaggac aagcgtttca gtggatctgt caagttacca catatccccc gtcctaaaat	180
gaagatctgc atgctcggag atgccagca tgttgaagag aacatggatg ttgagtctct	240
aaaaaagctt aacaagaaca agaaactcgt caagaagctt gcaaagaaat accatgcttt	300
cttggcctct gagtctgtca ttaagcagat tctcgtctt cttggtcctg gtcttaacaa	360
ggcag	

(2) INFORMATION FOR SEQ ID NO:1206:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..121
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597314

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

Lys Leu Gln Ser Glu Ala Val Arg Glu Ala Ile Thr Thr Ile Thr Gly  
1 5 10 15  
Lys Ser Glu Ala Lys Lys Arg Asn Phe Val Glu Thr Ile Glu Leu Gln  
20 25 30  
Ile Gly Leu Lys Asn Tyr Asp Pro Gln Lys Asp Lys Arg Phe Ser Gly  
35 40 45  
Ser Val Lys Leu Pro His Ile Pro Arg Pro Lys Met Lys Ile Cys Met  
50 55 60  
Leu Gly Asp Ala Gln His Val Glu Glu Asn Met Asp Val Glu Ser Leu  
65 70 75 80  
Lys Lys Leu Asn Lys Asn Lys Lys Leu Val Lys Lys Leu Ala Lys Lys  
85 90 95  
Tyr His Ala Phe Leu Ala Ser Glu Ser Val Ile Lys Gln Ile Pro Arg

0066980 101300

100 105 110  
Leu Leu Gly Pro Gly Leu Asn Lys Ala  
115 120

(2) INFORMATION FOR SEQ ID NO:1207:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..62
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597315

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:

Met Lys Ile Cys Met Leu Gly Asp Ala Gln His Val Glu Glu Asn Met  
1 5 10 15  
Asp Val Glu Ser Leu Lys Lys Leu Asn Lys Asn Lys Lys Leu Val Lys  
20 25 30  
Lys Leu Ala Lys Lys Tyr His Ala Phe Leu Ala Ser Glu Ser Val Ile  
35 40 45  
Lys Gln Ile Pro Arg Leu Leu Gly Pro Gly Leu Asn Lys Ala  
50 55 60

(2) INFORMATION FOR SEQ ID NO:1208:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1036 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..1036
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597316

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:

acaatggatg agttataggt ttggttaaga cttgaaaagt cattgatcac ggcttttgtc 60  
cattattccg tgttttaaagt aattttacatt ctcttttaag atctctcagt ccaaagacaa 120  
tgcaaacaat aataatttct ccacttggtt ctcacgtctc ctgtcttgct cgtgctgttc 180  
cttgcaaccg tcttctcaac aaccaccacc gtgctcctcc ttcgatccgc ctctcaaacc 240  
accgttcaac cacctcactc cgctcttctt cctccgccgc agccagtcgg gacagtgaag 300  
tggcgactga agatgtgcaa gatcccagaa tcgctaagat tgcctcttcc attagagtca 360  
tccccgactt ccctaaacca ggaatcatgt ttcaggacat aacgacgctt cttctcgaca 420  
ctgaggcctt taaggatact attgctttgt ttgttgatag atacaaagat aaaggcatat 480  
ctgttggtgc aggtgttgaa gctagagggt tcatttttgg ccctcttatt gcgttggcta 540  
ttggtgcaa atttgttccc atgaggacgc ccaagaagct acctggaag gttatttcgg 600  
aggagtattc gttggagtat ggaccagata cgattgagat gcacgtaggt gcagtagagc 660  
ctggtgagcg tgctattatt attgatgncc tcattgccac ggggtgggact ctgctgctg 720  
caatccgact acttgaacga gtaggagtg agattgttga atgtgcttgc gtaattgagt 780  
taccagagct taagggaag gagaaactag gagagacgtc gctatttgtt cttgtaaagt 840  
cggtgctta acaagaaact ggaagtgaag gttattggat cgagtgttga tgctattttt 900  
catgtatggt gagacatttt gcgtgggatt tgatccttgt tgnttcaact tttatcatan 960  
ttggttcagn ctagaaaatg gcatttgaat gtcaggattc gattgcagtt tcctattgtt 1020  
ccacttaaaa tccccg

(2) INFORMATION FOR SEQ ID NO:1209:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

09639930-101300

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..243  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597317

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:

Met Gln Thr Ile Ile Ile Ser Pro Leu Val Ser His Arg Leu Cys Leu  
1 5 10 15  
Ala Arg Ala Val Pro Cys Asn Arg Leu Leu Asn Asn His His Arg Ala  
20 25 30  
Pro Pro Ser Ile Arg Leu Ser Asn His Arg Ser Thr Thr Ser Leu Arg  
35 40 45  
Leu Phe Ser Ser Ala Ala Ala Ser Arg Asp Ser Glu Met Ala Thr Glu  
50 55 60  
Asp Val Gln Asp Pro Arg Ile Ala Lys Ile Ala Ser Ser Ile Arg Val  
65 70 75 80  
Ile Pro Asp Phe Pro Lys Pro Gly Ile Met Phe Gln Asp Ile Thr Thr  
85 90 95  
Leu Leu Leu Asp Thr Glu Ala Phe Lys Asp Thr Ile Ala Leu Phe Val  
100 105 110  
Asp Arg Tyr Lys Asp Lys Gly Ile Ser Val Val Ala Gly Val Glu Ala  
115 120 125  
Arg Gly Phe Ile Phe Gly Pro Pro Ile Ala Leu Ala Ile Gly Ala Lys  
130 135 140  
Phe Val Pro Met Arg Thr Pro Lys Lys Leu Pro Gly Lys Val Ile Ser  
145 150 155 160  
Glu Glu Tyr Ser Leu Glu Tyr Gly Pro Asp Thr Ile Glu Met His Val  
165 170 175  
Gly Ala Val Glu Pro Gly Glu Arg Ala Ile Ile Ile Asp Xaa Leu Ile  
180 185 190  
Ala Thr Gly Gly Thr Leu Ala Ala Ile Arg Leu Leu Glu Arg Val  
195 200 205  
Gly Val Xaa Ile Val Glu Cys Ala Cys Val Ile Glu Leu Pro Glu Leu  
210 215 220  
Lys Gly Lys Glu Lys Leu Gly Glu Thr Ser Leu Phe Val Leu Val Lys  
225 230 235 240  
Ser Ala Ala

(2) INFORMATION FOR SEQ ID NO:1210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..183  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597318

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

Met Ala Thr Glu Asp Val Gln Asp Pro Arg Ile Ala Lys Ile Ala Ser  
1 5 10 15  
Ser Ile Arg Val Ile Pro Asp Phe Pro Lys Pro Gly Ile Met Phe Gln  
20 25 30  
Asp Ile Thr Thr Leu Leu Leu Asp Thr Glu Ala Phe Lys Asp Thr Ile  
35 40 45  
Ala Leu Phe Val Asp Arg Tyr Lys Asp Lys Gly Ile Ser Val Val Ala  
50 55 60  
Gly Val Glu Ala Arg Gly Phe Ile Phe Gly Pro Pro Ile Ala Leu Ala  
65 70 75 80  
Ile Gly Ala Lys Phe Val Pro Met Arg Thr Pro Lys Lys Leu Pro Gly  
85 90 95  
Lys Val Ile Ser Glu Glu Tyr Ser Leu Glu Tyr Gly Pro Asp Thr Ile

09689980 "101300

[illegible]

(2) INFORMATION FOR SEQ ID NO:1211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear .

## (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..154  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597319

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

[illegible]

(2) INFORMATION FOR SEQ ID NO:1212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1097 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- ```
(A) NAME/KEY: -
(B) LOCATION: 1..1097
(D) OTHER INFORMATION: / Ceres Seq. ID 1597344
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

| (X1)        | SEQUENCE    | DESCRIPTION | SEQ ID NO  |            |             |     |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| cacaatttga  | tacgcgctcag | tttgaccaga  | ggctgaatga | agttctcgat | ggacagggatg | 60  |
| agattcttcac | ctcatatgat  | gaggtccatg  | agagctttga | tgccatgggt | ttgcaagaga  | 120 |
| atcttcttag  | gggtatctat  | gcttacggtt  | tcgaaaagcc | ttctgctatt | cagcaaaagag | 180 |
| gaattgtacc  | cttttgcaag  | ggtcttgatg  | tgatccagca | ggcacagctc | ggtactggaa  | 240 |
| aaaccgccac  | tttctgctct  | aggctcttgc  | agcagcttga | cgtgcacctt | ctccagtgcc  | 300 |
| aggctctcgt  | tttggctccc  | accgagagac  | ttgctcagca | gattgagaag | gtcatgcgtg  | 360 |

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| cccttggtga | ctaccaaggt | gtcaagggttc | atgcctgtgt | tggtggaacc | agtgtccgtn | 420  |
| aggatcagcg | cattctccag | gctgggtgttc | atgttgctgt | tggaactcct | ggctcgtgtt | 480  |
| ttgacatgct | tagaagacaa | tctctccgcc  | ctgactgcat | caagatgttt | gtccttgatg | 540  |
| aagctgatga | aatgctctcc | cgtgggtttca | aggatcagct | catggagaca | tggacaaaa  | 600  |
| caccagagac | atcatcatga | gagagttcag  | gtcntggctc | gtctcgtgtt | ctaatacaca | 660  |
| ccgatctctt | ggctcgtggt | atcgatgtgc  | agcaagtctc | tctagtcata | aanccttgac | 720  |
| ctcccaactc | agccagagaa | ttaccttcac  | cgtatcggaa | gaagtggaa  | gttcgggaga | 780  |
| aagggtgtgg | cgattaactt | tgtgancnt   | tgangatcag | agaatgctgt | ttgatattca | 840  |
| gaaantctnc | aatgtnggtt | gttgagnagc  | ttcccncaaa | cgtggctgat | ttngctgtga | 900  |
| agaagaagaa | gaagaagaan | gaagaaaggt  | tngcttgtn  | cgcnnntttc | ttatttngat | 960  |
| ttttgaccgc | tctnnnnntc | tctgaatcat  | cgatacatct | ttttcattct | ctagtattct | 1020 |
| tcatcaactc | tatcgaacat | atatatgtct  | cttctgacca | tatttctttt | ttatcaaagt | 1080 |
| caatatttat | ttcttct    |             |            |            |            |      |

(2) INFORMATION FOR SEQ ID NO:1213:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..205
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597345

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Phe | Asp | Thr | Arg | Gln | Phe | Asp | Gln | Arg | Leu | Asn | Glu | Val | Leu | Asp |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Gly | Gln | Asp | Glu | Phe | Phe | Thr | Ser | Tyr | Asp | Glu | Val | His | Glu | Ser | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Ala | Met | Gly | Leu | Gln | Glu | Asn | Leu | Leu | Arg | Gly | Ile | Tyr | Ala | Tyr |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |
| Gly | Phe | Glu | Lys | Pro | Ser | Ala | Ile | Gln | Gln | Arg | Gly | Ile | Val | Pro | Phe |
|     |     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |
| Cys | Lys | Gly | Leu | Asp | Val | Ile | Gln | Gln | Ala | Gln | Ser | Gly | Thr | Gly | Lys |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |     |
| Thr | Ala | Thr | Phe | Cys | Ser | Gly | Val | Leu | Gln | Leu | Asp | Tyr | Ala | Leu |     |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Leu | Gln | Cys | Gln | Ala | Leu | Val | Leu | Ala | Pro | Thr | Arg | Glu | Leu | Ala | Gln |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Ile | Glu | Lys | Val | Met | Arg | Ala | Leu | Gly | Asp | Tyr | Gln | Gly | Val | Lys |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |
| Val | His | Ala | Cys | Val | Gly | Gly | Thr | Ser | Val | Arg | Xaa | Asp | Gln | Arg | Ile |
|     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |
| Leu | Gln | Ala | Gly | Val | His | Val | Val | Val | Gly | Thr | Pro | Gly | Arg | Val | Phe |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |     |
| Asp | Met | Leu | Arg | Arg | Gln | Ser | Leu | Arg | Pro | Asp | Cys | Ile | Lys | Met | Phe |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Val | Leu | Asp | Glu | Ala | Asp | Glu | Met | Leu | Ser | Arg | Gly | Phe | Lys | Asp | Gln |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |
| Leu | Met | Glu | Thr | Trp | Thr | Lys | Thr | Pro | Glu | Thr | Ser | Ser |     |     |     |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1214:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..171

09669980-10300



(D) OTHER INFORMATION: / Ceres Seq. ID 1597346

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

Met Gly Leu Gln Glu Asn Leu Leu Arg Gly Ile Tyr Ala Tyr Gly Phe  
1 5 10 15  
Glu Lys Pro Ser Ala Ile Gln Gln Arg Gly Ile Val Pro Phe Cys Lys  
20 25 30  
Gly Leu Asp Val Ile Gln Gln Ala Gln Ser Gly Thr Gly Lys Thr Ala  
35 40 45  
Thr Phe Cys Ser Gly Val Leu Gln Gln Leu Asp Tyr Ala Leu Leu Gln  
50 55 60  
Cys Gln Ala Leu Val Leu Ala Pro Thr Arg Glu Leu Ala Gln Gln Ile  
65 70 75 80  
Glu Lys Val Met Arg Ala Leu Gly Asp Tyr Gln Gly Val Lys Val His  
85 90 95  
Ala Cys Val Gly Gly Thr Ser Val Arg Xaa Asp Gln Arg Ile Leu Gln  
100 105 110  
Ala Gly Val His Val Val Val Gly Thr Pro Gly Arg Val Phe Asp Met  
115 120 125  
Leu Arg Arg Gln Ser Leu Arg Pro Asp Cys Ile Lys Met Phe Val Leu  
130 135 140  
Asp Glu Ala Asp Glu Met Leu Ser Arg Gly Phe Lys Asp Gln Leu Met  
145 150 155 160  
Glu Thr Trp Thr Lys Thr Pro Glu Thr Ser Ser  
165 170

(2) INFORMATION FOR SEQ ID NO:1215:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 123 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..123

(D) OTHER INFORMATION: / Ceres Seq. ID 1597347

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

Met Pro Phe Ser Ser Ala Arg Leu Ser Phe Trp Leu Pro Pro Glu Ser  
1 5 10 15  
Leu Leu Ser Arg Leu Arg Arg Ser Cys Val Pro Leu Val Thr Thr Lys  
20 25 30  
Val Ser Arg Phe Met Pro Val Leu Val Glu Pro Val Ser Xaa Arg Ile  
35 40 45  
Ser Ala Phe Ser Arg Leu Val Phe Met Leu Ser Leu Glu Leu Leu Val  
50 55 60  
Val Phe Leu Thr Cys Leu Glu Asp Asn Leu Ser Ala Leu Thr Ala Ser  
65 70 75 80  
Arg Cys Leu Ser Leu Met Lys Leu Met Lys Cys Ser Pro Val Val Ser  
85 90 95  
Arg Ile Ser Ser Trp Arg His Gly Pro Lys His Gln Arg His His His  
100 105 110  
Glu Arg Val Gln Val Xaa Ala Arg Leu Val Phe  
115 120

(2) INFORMATION FOR SEQ ID NO:1216:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1156 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: -

096898960

(D) OTHER INFORMATION: / Ceres Seq. ID 1597360

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:

(2) INFORMATION FOR SEQ ID NO:1217:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 352 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..352

(D) OTHER INFORMATION: / Ceres Seq. ID 1597361

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:

| (X1) SEQUENCE DESCRIPTION: SEQ ID NO:1214 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Val                                       | Arg | Leu | Glu | Glu | Gly | Thr | Val | Lys | Ser | Leu | Ile | Glu | Glu | Lys | Gly |  |
| 1                                         |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |  |
| Val                                       | Ile | Lys | Gly | Val | Thr | Tyr | Lys | Asn | Lys | Ala | Gly | Glu | Glu | Thr | Thr |  |
|                                           |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |     |  |
| Ala                                       | Leu | Ala | Pro | Leu | Thr | Val | Val | Cys | Asp | Gly | Cys | Tyr | Ser | Asn | Leu |  |
|                                           |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |  |
| Arg                                       | Arg | Ser | Leu | Asn | Asp | Asn | Asn | Ala | Glu | Val | Leu | Ser | Tyr | Gln | Val |  |
|                                           | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |  |
| Ala                                       | Tyr | Ile | Ser | Lys | Asn | Cys | Arg | Leu | Asp | Asp | Pro | Lys | Asn | Leu | His |  |
| 65                                        |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Leu                                       | Ile | Met | Ser | Lys | Pro | Ser | Tyr | Ile | Met | Leu | Tyr | Gln | Leu | Ser | Ser |  |
|                                           |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| Thr                                       | Asp | Val | Arg | Cys | Gly | Phe | Glu | Leu | Phe | Ser | Ala | Asn | Phe | Pro | Ser |  |
|                                           |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Ile                                       | Ala | Lys | Gly | Glu | Met | Ala | Thr | Phe | Ala | Lys | Asn | Thr | Leu | Ala | Pro |  |
|                                           |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
| Gln                                       | Val | Pro | Pro | Lys | Leu | Arg | Lys | Ile | Phe | Leu | Lys | Gly | Leu | Asp | Glu |  |
|                                           |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Gly                                       | Ala | His | Ile | Lys | Ala | Val | Pro | Ala | Lys | Arg | Met | Thr | Ala | Ser | Leu |  |
| 145                                       |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Thr                                       | Lys | Lys | Asn | Gly | Val | Ile | Val | Leu | Gly | Asp | Ala | Phe | Asn | Met | Arg |  |
|                                           |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| His                                       | Xaa | Ser | Val | Ala | Ala | Gly | Met | Met | Val | Leu | Leu | Ser | Asp | Ile | Leu |  |
|                                           |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Ile                                       | Leu | Arg | Arg | Leu | Leu | Gln | Pro | Leu | Ser | Asn | Leu | Gly | Asp | Ala | Asn |  |
|                                           |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |

[illegible]

(2) INFORMATION FOR SEQ ID NO:1218:

(A) LENGTH: 270 amino acids

(C) STRANDEDNESS:

(D) TOPOLOGY: lin

MOLECULE TYPE: peptid

FEATURE:

## (7) NAME/KEY: peptide

(A) NAME/KEY: peptide

(B) LOCATION: 1..270

(D) OTHER INFORMATION: / Ceres Seq. ID 1597362

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:

| (X1) SEQUENCE DESCRIPTION: SEQ ID: 10 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met                                   | Ser | Lys | Pro | Ser | Tyr | Ile | Met | Leu | Tyr | Gln | Leu | Ser | Ser | Thr | Asp |  |
| 1                                     |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |
| Val                                   | Arg | Cys | Gly | Phe | Glu | Leu | Phe | Ser | Ala | Asn | Phe | Pro | Ser | Ile | Ala |  |
|                                       |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Lys                                   | Gly | Glu | Met | Ala | Thr | Phe | Ala | Lys | Asn | Thr | Leu | Ala | Pro | Gln | Val |  |
|                                       |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Pro                                   | Pro | Lys | Leu | Arg | Lys | Ile | Phe | Leu | Lys | Gly | Leu | Asp | Glu | Gly | Ala |  |
|                                       | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| His                                   | Ile | Lys | Ala | Val | Pro | Ala | Lys | Arg | Met | Thr | Ala | Ser | Leu | Thr | Lys |  |
| 65                                    |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Lys                                   | Asn | Gly | Val | Ile | Val | Leu | Gly | Asp | Ala | Phe | Asn | Met | Arg | His | Xaa |  |
|                                       |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |  |
| Ser                                   | Val | Ala | Ala | Gly | Met | Met | Val | Leu | Leu | Ser | Asp | Ile | Leu | Ile | Leu |  |
|                                       |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Arg                                   | Arg | Leu | Leu | Gln | Pro | Leu | Ser | Asn | Leu | Gly | Asp | Ala | Asn | Lys | Val |  |
|                                       |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
| Ser                                   | Glu | Val | Ile | Lys | Ser | Phe | Asn | Ile | Ile | Arg | Lys | Pro | Met | Ser | Ala |  |
|                                       | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Thr                                   | Val | Asn | Thr | Leu | Gly | Asn | Ala | Phe | Ser | Gln | Val | Leu | Ile | Ala | Ser |  |
| 145                                   |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Thr                                   | Asp | Glu | Ala | Lys | Glu | Ala | Met | Arg | Gln | Gly | Cys | Tyr | Asp | Tyr | Leu |  |
|                                       |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |  |
| Ser                                   | Ser | Gly | Gly | Phe | Cys | Thr | Ser | Gly | Met | Met | Ala | Leu | Leu | Gly | Gly |  |
|                                       |     | 180 |     |     |     |     |     | 185 |     |     |     | 190 |     |     |     |  |
| Met                                   | Asn | Pro | Arg | Pro | Leu | Ser | Leu | Ile | Tyr | His | Leu | Cys | Ala | Ile | Thr |  |
|                                       | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |
| Leu                                   | His | Ser | Ile | Gly | His | Leu | Leu | Ser | Pro | Phe | Pro | Ser | Pro | Leu | Ser |  |
|                                       | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Ile                                   | Trp | His | Ser | Leu | Arg | Leu | Phe | Gly | Leu | Ala | Leu | Lys | Met | Leu | Val |  |

[illegible]

(2) INFORMATION FOR SEQ ID NO:1219:

(A) LENGTH: 263 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..263

(D) OTHER INFORMATION: / Ceres Seq. ID 1597363

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

[illegible]

(2) INFORMATION FOR SEQ ID NO:1220:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 504 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

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(ix) FEATURE:
```

(A) NAME/KEY: -

(B) LOCATION: 1..504

[illegible]

(D) OTHER INFORMATION: / Ceres Seq. ID 1597376

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| aatcacggcg | gcggcgggcg | aagagtagca | gcagcaggcg | gcgcgagta  | gcgtctcccc  | 60  |
| acctcgagct | tgccaccatg | gctagaggat | tgaagaagca | tttgaagagg | ctcaatgcgc  | 120 |
| ccaagcattg | gatgctggac | aagcttggcg | gasttttgct | cccaaaccat | cttctggacc  | 180 |
| tcacaagtct | agggagtgcc | tgccactgat | cctcatcatc | aggaacaggc | tcaagtatgc  | 240 |
| tcttacatac | cgtgagtcac | ttccatcctg | atgcaacgcc | atgtacttgt | tgatggcaag  | 300 |
| gtcaggacag | acaagaccta | ccctgctggg | ttcatggatg | tcatttccat | ccccaaagacc | 360 |
| aacgagaact | acaggctgct | gtatgacact | aagggccgct | tccgccttca | cccaatcagg  | 420 |
| gatgaggatg | ctaagttcaa | gctttgcaag | gtaggtctg  | ttcagtttgg | gcagaagggc  | 480 |
| atcccgtacc | tgaacacgta | tgac       |            |            |             |     |

(2) INFORMATION FOR SEQ ID NO:1221:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 68 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..68

(D) OTHER INFORMATION: / Ceres Seq. ID 1597377

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Arg | Arg | Arg | Arg | Lys | Ser | Ser | Ser | Ser | Arg | Arg | Arg | Arg | Val |
| 1   |     |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |
| Ala | Ser | Pro | His | Leu | Glu | Leu | Ala | Thr | Met | Ala | Arg | Gly | Leu | Lys | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| His | Leu | Lys | Arg | Leu | Asn | Ala | Pro | Lys | His | Trp | Met | Leu | Asp | Lys | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Gly | Xaa | Leu | Leu | Pro | Asn | His | Leu | Leu | Asp | Leu | Thr | Ser | Leu | Gly |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Ala | Cys | His |     |     |     |     |     |     |     |     |     |     |     |     |
| 65  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1222:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 78 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..78

(D) OTHER INFORMATION: / Ceres Seq. ID 1597378

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gln | Arg | His | Val | Leu | Val | Asp | Gly | Lys | Val | Arg | Thr | Asp | Lys | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Tyr | Pro | Ala | Gly | Phe | Met | Asp | Val | Ile | Ser | Ile | Pro | Lys | Thr | Asn | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Tyr | Arg | Leu | Leu | Tyr | Asp | Thr | Lys | Gly | Arg | Phe | Arg | Leu | His | Pro |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Ile | Arg | Asp | Glu | Asp | Ala | Lys | Phe | Lys | Leu | Cys | Lys | Val | Arg | Ser | Val |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gln | Phe | Gly | Gln | Lys | Gly | Ile | Pro | Tyr | Leu | Asn | Thr | Tyr | Asp |     |     |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1223:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 70 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

09669901 "09669901"

[illegible]

| (X1) SEQUENCE DESCRIPTION: SEQ ID NUMBER |            |            |            |            |            |     |
|------------------------------------------|------------|------------|------------|------------|------------|-----|
| aatagccttc                               | gcctctcctt | ccagtgctcg | cctgctgtcg | ctcgtacc   | ctctccctcg | 60  |
| aggccttttc                               | cgcggaagag | cgccagtcg  | cccaccagga | tgaagtttgt | tgctgcctac | 120 |
| cgtcttgctg                               | tcctcgctgg | gaactccagc | ccctctgccg | aggacttgac | agccattctg | 180 |
| gagtcagttg                               | gctgtgaagt | tgacaatgaa | aagatggaac | tccttctgtc | ccaactgagc | 240 |
| ggtaaggaca                               | ttaccgagct | cattgctgct | ggcagggaga | agtttgcttc | agtcccatgt | 300 |
| ggcgggtggg                               | ggtagggctg | ttgtggcagc | tgcccctgct | gctggcgggc | ctctgcgagc | 360 |
| tgaggcgaa                                | aaagaagaga | aggtggagga | gaaggaagaa | agtgtgacg  | acatgggctt | 420 |
| cagcctcttc                               | gactaagcct | gtgcatagtc | aagagtattg | tttttg     |            |     |

| (x1) SEQUENCE DESCRIPTION: 322 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn 1                          | Ser | Leu | Arg | Leu | Ser | Phe | Gln | Cys | Pro | Pro | Ser | Cys | Ala | Arg | Tyr |
|                                |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Pro                            | Ser | Pro | Ser | Arg | Pro | Leu | Pro | Ala | Lys | Ser | Ala | Gln | Ser | Pro | Thr |
|                                |     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg                            | Met | Lys | Phe | Val | Ala | Ala | Tyr | Leu | Leu | Ala | Val | Leu | Ala | Gly | Asn |
|                                |     |     |     | 35  |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser                            | Ser | Pro | Ser | Ala | Glu | Asp | Leu | Thr | Ala | Ile | Leu | Glu | Ser | Val | Gly |
|                                |     |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Cys                            | Glu | Val | Asp | Asn | Glu | Lys | Met | Glu | Leu | Leu | Leu | Ser | Gln | Leu | Ser |
| 65                             |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Gly                            | Lys | Asp | Ile | Thr | Glu | Leu | Ile | Ala | Ala | Gly | Arg | Glu | Lys | Phe | Ala |
|                                |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser                            | Val | Pro | Cys | Gly | Gly | Gly | Arg | Cys | Gly | Cys | Cys | Gly | Ser | Cys | Pro |

100 105 110  
Cys Cys Trp Arg Arg Ser Cys Ser  
115 120  
(2) INFORMATION FOR SEQ ID NO:1226:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 87 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
(A) NAME/KEY: peptide  
(B) LOCATION: 1..87  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597394  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:  
Met Lys Phe Val Ala Ala Tyr Leu Leu Ala Val Leu Ala Gly Asn Ser  
1 5 10 15  
Ser Pro Ser Ala Glu Asp Leu Thr Ala Ile Leu Glu Ser Val Gly Cys  
20 25 30  
Glu Val Asp Asn Glu Lys Met Glu Leu Leu Leu Ser Gln Leu Ser Gly  
35 40 45  
Lys Asp Ile Thr Glu Leu Ile Ala Ala Gly Arg Glu Lys Phe Ala Ser  
50 55 60  
Val Pro Cys Gly Gly Gly Arg Cys Gly Cys Cys Gly Ser Cys Pro Cys  
65 70 75 80  
Cys Trp Arg Arg Ser Cys Ser  
85

(2) INFORMATION FOR SEQ ID NO:1227:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 502 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: DNA (genomic)  
(ix) FEATURE:  
(A) NAME/KEY: -  
(B) LOCATION: 1..502  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597396  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:  
aatagcctcc gcctctcctt ccagtggtccg ccgtcgtgcg ctcgctaccc ctctccctcg 60  
aggcctttgc cgcaagagc gccagtcgc ccaccaggat gaagtttggt gctgcctatc 120  
tgcttgctgt cctcgtggtg aactccagcc cctctgccga ggacttgaca tccattctgg 180  
agtcagttgg ctgtgaagtt gacaatgaaa agatggaact ccttctgtcc cagctgagcg 240  
gtaaggacat taccgagctc attgccgccg gcaggagaaa gtttgcttca gtcccatgtg 300  
gcggtggcgg tgtggctgtc gcggcastgc ccctgctgct ggcggcggcg gcgctcctgc 360  
agctgaggcg aagaaagaag agaaggtgga ggagaaggaa gaaagtgatg acgacatggg 420  
cttcagctct tcgactaagt ctgtgcaata gccaaaggga ttgtttttga gtcgaggaag 480  
cagaggggaa gaaaaatagt ag

(2) INFORMATION FOR SEQ ID NO:1228:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 64 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
(A) NAME/KEY: peptide  
(B) LOCATION: 1..64  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597397  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:  
Ile Ala Ser Ala Ser Pro Ser Ser Val Arg Arg Arg Ala Leu Ala Thr

09639980 "101300

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1   | 5   | 10  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |
| Pro | Leu | Pro | Arg | Gly | Leu | Cys | Arg | Glu | Glu | Arg | Pro | Val | Ala | His | Gln |
|     | 20  | 25  | 30  |     |     |     |     |     |     |     |     |     |     |     |     |
| Asp | Glu | Val | Cys | Cys | Cys | Leu | Ser | Ala | Cys | Cys | Pro | Arg | Trp | Glu | Leu |
|     | 35  | 40  | 45  |     |     |     |     |     |     |     |     |     |     |     |     |
| Gln | Pro | Leu | Cys | Arg | Gly | Leu | Asp | Ile | His | Ser | Gly | Val | Ser | Trp | Leu |
|     | 50  | 55  | 60  |     |     |     |     |     |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1229:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..123

(D) OTHER INFORMATION: / Ceres Seq. ID 1597398

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Phe | Val | Ala | Tyr | Leu | Leu | Ala | Val | Leu | Ala | Gly | Asn | Ser |     |
| 1   | 5   | 10  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |
| Ser | Pro | Ser | Ala | Glu | Asp | Leu | Thr | Ser | Ile | Leu | Glu | Ser | Val | Gly | Cys |
|     | 20  | 25  | 30  |     |     |     |     |     |     |     |     |     |     |     |     |
| Glu | Val | Asp | Asn | Glu | Lys | Met | Glu | Leu | Leu | Leu | Ser | Gln | Leu | Ser | Gly |
|     | 35  | 40  | 45  |     |     |     |     |     |     |     |     |     |     |     |     |
| Lys | Asp | Ile | Thr | Glu | Leu | Ile | Ala | Ala | Gly | Arg | Glu | Lys | Phe | Ala | Ser |
|     | 50  | 55  | 60  |     |     |     |     |     |     |     |     |     |     |     |     |
| Val | Pro | Cys | Gly | Gly | Gly | Gly | Val | Ala | Val | Ala | Xaa | Pro | Leu | Leu |     |
| 65  | 70  | 75  | 80  |     |     |     |     |     |     |     |     |     |     |     |     |
| Leu | Ala | Ala | Ala | Ala | Leu | Leu | Gln | Leu | Arg | Arg | Arg | Lys | Lys | Arg | Arg |
|     | 85  | 90  | 95  |     |     |     |     |     |     |     |     |     |     |     |     |
| Trp | Arg | Arg | Arg | Lys | Lys | Val | Met | Thr | Thr | Trp | Ala | Ser | Ala | Leu | Arg |
|     | 100 | 105 | 110 |     |     |     |     |     |     |     |     |     |     |     |     |
| Leu | Ser | Leu | Cys | Asn | Ser | Gln | Gly | Tyr | Cys | Phe |     |     |     |     |     |
|     | 115 | 120 |     |     |     |     |     |     |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1230:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..85

(D) OTHER INFORMATION: / Ceres Seq. ID 1597399

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Leu | Leu | Leu | Ser | Gln | Leu | Ser | Gly | Lys | Asp | Ile | Thr | Glu | Leu |
| 1   | 5   | 10  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |
| Ile | Ala | Ala | Gly | Arg | Glu | Lys | Phe | Ala | Ser | Val | Pro | Cys | Gly | Gly | Gly |
|     | 20  | 25  | 30  |     |     |     |     |     |     |     |     |     |     |     |     |
| Gly | Val | Ala | Val | Ala | Ala | Xaa | Pro | Leu | Leu | Leu | Ala | Ala | Ala | Ala | Leu |
|     | 35  | 40  | 45  |     |     |     |     |     |     |     |     |     |     |     |     |
| Leu | Gln | Leu | Arg | Arg | Arg | Lys | Lys | Arg | Arg | Trp | Arg | Arg | Arg | Lys | Lys |
|     | 50  | 55  | 60  |     |     |     |     |     |     |     |     |     |     |     |     |
| Val | Met | Thr | Thr | Trp | Ala | Ser | Ala | Leu | Arg | Leu | Ser | Leu | Cys | Asn | Ser |
| 65  | 70  | 75  | 80  |     |     |     |     |     |     |     |     |     |     |     |     |
| Gln | Gly | Tyr | Cys | Phe |     |     |     |     |     |     |     |     |     |     |     |
|     | 85  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

09669930-101300



(2) INFORMATION FOR SEQ ID NO:1231:

- ```
(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 509 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(ix) FEATURE:
    (A) NAME/KEY: -
    (B) LOCATION: 1..509
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597412
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

caccacaagtc	caagcaccdn	tcccaaaaaa	atccccatt	ttcttcgagg	cgaggagagc	60
gtgaaagaca	gggcaccgnc	agcgacgatg	tcggggcgcg	gcaagggcgg	caaaggtctg	120
ggcaagggcg	gasaaagcgc	caccgtaagt	ctccgtgaca	acatccaggr	gcatcaccaa	180
gcccgcgatc	cgtagctggc	tcggaggggc	ggcgtgaagc	sattttcggg	gcttatctac	240
gaggagacc	gcggcgctct	caagatcttc	ctcgagaacg	tcateccgca	cgccgtcacc	300
tacaccgagc	acgcacgccg	caagactgtt	accgccatgg	acgtcgtcta	cgcgctcaag	360
cscagggccg	aacctctac	ggcttcggag	gctaggctgg	atgcctcttc	tccttgctgt	420
cgtggatgac	tgtttgtgtg	tagggttact	tcgtttagtt	ccttgctctg	gacgtggttg	480
actattgtta	qtagtattct	tgaagttgt				

(2) INFORMATION FOR SEQ ID NO:1232:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 64 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
  - (A) NAME/KEY: peptide
  - (B) LOCATION: 1..64
  - (D) OTHER INFORMATION: / Ceres Seq. ID 1597413

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:

His	Pro	Ser	Pro	Ser	Thr	Xaa	Pro	Lys	Lys	Ile	Pro	His	Phe	Leu	Arg
1				5					10					15	
Gly	Glu	Glu	Ser	Val	Lys	Asp	Arg	Ala	Pro	Xaa	Ala	Thr	Met	Ser	Gly
			20					25					30		
Arg	Gly	Lys	Gly	Gly	Lys	Gly	Leu	Gly	Lys	Gly	Gly	Xaa	Ser	Ala	Thr
		35					40					45			
Val	Ser	Leu	Arg	Asp	Asn	Ile	Gln	Xaa	His	His	Gln	Ala	Arg	Asp	Pro
	50					55					60				

(2) INFORMATION FOR SEQ ID NO:1233:

- ```

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 51 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS:
    (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: peptide
(ix) FEATURE:
    (A) NAME/KEY: peptide
    (B) LOCATION: 1..51
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597414

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:

| (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 1 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro                                     | Lys | Ser | Lys | His | Xaa | Ser | Gln | Lys | Asn | Pro | Pro | Phe | Ser | Ser | Arg |
| 1                                       |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg                                     | Gly | Glu | Arg | Glu | Arg | Gln | Gly | Thr | Xaa | Ser | Asp | Asp | Val | Gly | Ala |
|                                         |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg                                     | Gln | Gly | Arg | Gln | Arg | Ser | Gly | Gln | Gly | Arg | Xaa | Lys | Arg | His | Arg |
|                                         |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

[illegible]

Lys Ser Pro  
50

(2) INFORMATION FOR SEQ ID NO:1234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..57
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597415

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

Met Asp Val Val Tyr Ala Leu Lys Xaa Arg Ala Glu Pro Ser Thr Ala  
1 5 10 15  
Ser Glu Ala Arg Leu Asp Ala Ser Ser Pro Cys Cys Arg Gly Cys Leu  
20 25 30  
Phe Val Val Arg Val Thr Ser Phe Ser Ser Leu Ser Val Thr Cys Trp  
35 40 45  
Thr Ile Val Ser Ser Ile Leu Glu Val  
50 55

(2) INFORMATION FOR SEQ ID NO:1235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 509 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..509
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597416

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

tngtctctcaa atatctctca ccacctctss sctcagcttn tcsscaccctt tggtcaggca 60  
ggctcaggca aagggggcgg msaacaagga cgagsgatgg sgaccaaggt catctgcttc 120  
cttgtgctcg catccctgct cctgcgcgtc gcctttccc tgtctgctct gcgncagcrg 180  
ttogaagaag ggcggcggcg gcggtggtgg cggaggcagt gttagcggaa sgcaggcgcc 240  
aacctgaatc cctggggagtg ctgcgccaaag tgcgggctcgc ggtgctccaa gacgcagtac 300  
aggaaggcct gcctcacctt atgcaacaag tgctgcgcca agtgccctctg cgtgccaccg 360  
gggttctacg gcaacaaggc cgctgcccct gctacaacaa ctggaaaacc aaggaaggag 420  
ggcccaagtg cccctagaat aagatccacc gcagctcccg tccgccattg tcscmccttc 480  
tccgaatctg ggaacgtgtt gttcatctt

(2) INFORMATION FOR SEQ ID NO:1236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..74
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597417

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

Xaa Leu Ser Asn Ile Ser His His Leu Xaa Xaa Gln Leu Xaa Xaa Thr  
1 5 10 15  
Phe Gly Gln Ala Gly Ser Gly Lys Gly Gly Xaa Xaa Gln Gly Arg Xaa  
20 25 30  
Met Xaa Thr Lys Val Ile Cys Phe Leu Val Leu Ala Ser Leu Leu Leu  
35 40 45

0963930 "101300

(2) INFORMATION FOR SEQ ID NO:1239:

(A) LENGTH: 492 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ix) FEATURE:

(B) LOCATION: 1..492

(D) OTHER INFORMATION: / Ceres Seq. ID 1597426

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| aatttttagga | cctaatttata | agastctctc | ttggagatgc | tctaaggcac | cgactcgccg | 60  |
| gggacagaga  | gagagaccga  | cgcgccggca | gatcccaagc | tcaccctaga | gggggaagag | 120 |
| ggcgaccgaa  | gcggcgatgg  | gtttcatcat | ggacttcgcg | gagaatctga | tcctccgtct | 180 |
| gatggaggac  | ccggacaagc  | gcgaccaggt | tcggcgggag | catgtctaca | agatgaagga | 240 |
| gcggtgcgag  | cgactaagg   | cggcgtggag | cctccctctg | cgcccctacg | gcttctggac | 300 |
| cttcgaccgc  | ttcaactcgc  | agctctcctg | ggatccccag | atcagccagg | ccgcggcgct | 360 |
| ncgggacccc  | tacgacgacc  | tcatcgcacg | ccactctggc | tcgcgcgcgt | cttctgaac  | 420 |
| acccgttccg  | atctttgcc   | agaaggctca | cttgggcac  | aataagaaac | tctttccct  | 480 |
| caaactgatt  | gt          |            |            |            |            |     |

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..93

(D) OTHER INFORMATION: / Ceres Seq. ID 1597427

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

|           |           |     |           |           |           |           |           |           |           |           |           |           |     |           |           |
|-----------|-----------|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----------|-----------|
| Met<br>1  | Gly       | Phe | Ile       | Met<br>5  | Asp       | Phe       | Ala       | Glu       | Asn<br>10 | Leu       | Ile       | Leu       | Arg | Leu<br>15 | Met       |
| Glu       | Asp       | Pro | Asp<br>20 | Lys       | Arg       | Asp       | Gln       | Val<br>25 | Arg       | Arg       | Glu       | His<br>30 | Val | Tyr       | Lys       |
| Met       | Lys       | Glu | Arg<br>35 | Cys       | Glu       | Arg       | Thr<br>40 | Lys       | Ala       | Ala       | Trp       | Ser<br>45 | Leu | Pro       | Leu       |
| Arg       | Pro<br>50 | Tyr | Gly       | Phe       | Trp       | Thr<br>55 | Phe       | Asp       | Arg       | Phe       | Asn<br>60 | Ser       | Gln | Leu       | Ser       |
| Trp<br>65 | Asp       | Pro | Gln       | Ile       | Ser<br>70 | Gln       | Ala       | Ala       | Gly       | Xaa<br>75 | Arg       | Asp       | Pro | Tyr       | Asp<br>80 |
| Asp       | Leu       | Ile | Ala       | Arg<br>85 | His       | Ser       | Gly       | Ser       | Pro<br>90 | Pro       | Ser       | Ser       |     |           |           |

(2) INFORMATION FOR SEQ ID NO:1241:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 89 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..89

(D) OTHER INFORMATION: / Ceres Seq. ID 1597428

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Phe | Ala | Glu | Asn | Leu | Ile | Leu | Arg | Leu | Met | Glu | Asp | Pro | Asp |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Lys | Arg | Asp | Gln | Val | Arg | Arg | Glu | His | Val | Tyr | Lys | Met | Lys | Glu | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Cys | Glu | Arg | Thr | Lys | Ala | Ala | Trp | Ser | Leu | Pro | Leu | Arg | Pro | Tyr | Gly |

35 40 45  
Phe Trp Thr Phe Asp Arg Phe Asn Ser Gln Leu Ser Trp Asp Pro Gln  
50 55 60  
Ile Ser Gln Ala Ala Gly Xaa Arg Asp Pro Tyr Asp Asp Leu Ile Ala  
65 70 75 80  
Arg His Ser Gly Ser Pro Pro Ser Ser  
85

(2) INFORMATION FOR SEQ ID NO:1242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..78

(D) OTHER INFORMATION: / Ceres Seq. ID 1597429

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

Met Glu Asp Pro Asp Lys Arg Asp Gln Val Arg Arg Glu His Val Tyr  
1 5 10 15  
Lys Met Lys Glu Arg Cys Glu Arg Thr Lys Ala Ala Trp Ser Leu Pro  
20 25 30  
Leu Arg Pro Tyr Gly Phe Trp Thr Phe Asp Arg Phe Asn Ser Gln Leu  
35 40 45  
Ser Trp Asp Pro Gln Ile Ser Gln Ala Ala Gly Xaa Arg Asp Pro Tyr  
50 55 60  
Asp Asp Leu Ile Ala Arg His Ser Gly Ser Pro Pro Ser Ser  
65 70 75

(2) INFORMATION FOR SEQ ID NO:1243:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 868 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: -

(B) LOCATION: 1..868

(D) OTHER INFORMATION: / Ceres Seq. ID 1597430

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

agaagcttat cgcttatcat ccgcgcctct acatttcttc tctctctgct cctccgcctc 60  
cgctccgcsc tggwtccsat ccaagacagg gatcgccatg tcggactcgg aggagcacca 120  
cttcgaatcg aaggccgacg ctggggcgct caagacctac ccgcagcagg ctggcaccgt 180  
ccgtaagaac ggcttcatcg tcatcaagaa ccgtccctgc aaggttgtgg aggtttctac 240  
ctccaagact ggtaagcatg gccacgcaa atgccacttt gtcgccatag acatattcaa 300  
tgggaaaaaag cttgaagata ttgttccttc atcacacaac tgtgacattc cgcattgtgaa 360  
ccgtactgag tatcagctga ttgatatttc tgaggatgga tttgtgagcc ttcttacttc 420  
agatggcaac actaaggatg atcttagact cccaactgat gagactcttg tggcccagat 480  
taaggaaggg ttcgaaagcg ggaaggatct tgttgtgact gtccagtctg cgatggggga 540  
ggagcagatc tgcgcgctga aggatgttgg ccccaagtaa cttccttggc tttggagacg 600  
gaacctact ctatctcaac ttaaatcgga aaagaagtgt atcaccaaaa ggattgctac 660  
cgagacattc acctggcttg agctbgcttt tgctatagcg tgcaaggggt tgctgggtgt 720  
cgtacctacc tgacttatca ttatctgttg ttacattctg gacctgtat tttctatgct 780  
ttcatgtctc tctactttct agtattaatt atcaataagt tggtttggaa tggttgaatt 840  
gcatccaatg catgaagttt ctttggt

(2) INFORMATION FOR SEQ ID NO:1244:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:



Lys Glu Gly Phe Glu Ser Gly Lys Asp Leu Val Val Thr Val Gln Ser  
130 135 140  
Ala Met Gly Glu Glu Gln Ile Cys Ala Leu Lys Asp Val Gly Pro Lys  
145 150 155 160

(2) INFORMATION FOR SEQ ID NO:1246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..239
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597437

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

acagcatctc aagtcttcac actcctcgcc atcacataaa accagtgcaa gcagaagcag 60  
cgcaatggcg agcagcacca tggccctctc ctccacagcc ttccgcccga akgcagtga 120  
cgtgccgtcg tctctcwtcg gcgangccc cgtgacgatg cgcaagangg cggcgaakgc 180  
aaagccggcg gcgagctccg gcagcccgtg gtaacggccc gamcgcgtgc tctacctgg

(2) INFORMATION FOR SEQ ID NO:1247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..79
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597438

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

Gln His Leu Lys Ser Ser His Ser Ser Pro Ser His Lys Thr Ser Ala  
1 5 10 15  
Ser Arg Ser Ser Ala Met Ala Ser Ser Thr Met Ala Leu Ser Ser Thr  
20 25 30  
Ala Phe Ala Gly Xaa Ala Val Asn Val Pro Ser Ser Leu Xaa Gly Xaa  
35 40 45  
Ala Arg Val Thr Met Arg Lys Xaa Ala Ala Xaa Ala Lys Pro Ala Ala  
50 55 60  
Ser Ser Gly Ser Pro Trp Tyr Gly Pro Xaa Arg Val Leu Tyr Leu  
65 70 75

(2) INFORMATION FOR SEQ ID NO:1248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..58
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597439

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

Met Ala Ser Ser Thr Met Ala Leu Ser Ser Thr Ala Phe Ala Gly Xaa  
1 5 10 15  
Ala Val Asn Val Pro Ser Ser Leu Xaa Gly Xaa Ala Arg Val Thr Met  
20 25 30  
Arg Lys Xaa Ala Ala Xaa Ala Lys Pro Ala Ala Ser Ser Gly Ser Pro

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(i) SEQUENCE CHARACTERISTICS:

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

(2) INFORMATION FOR SEQ ID NO:1250:

- (ii) MOLECULE TYPE: DNA (genomic)

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

(2) INFORMATION FOR SEQ ID NO:1251:

- (ii) MOLECULE TYPE: peptide

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

(2) INFORMATION FOR SEQ ID NO:1252:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 446 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single



- (D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: DNA (genomic)  
(ix) FEATURE:  
    (A) NAME/KEY: -  
    (B) LOCATION: 1..446  
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597456

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| aagctcctcg | tcaccagtca  | gaaaacagtg | ggatcgagtt | gtttcactgc | acgagcacat | 60  |
| cctccggcga | ccaccggcct  | ccctctccgt | cctctagcga | ccgaccaacg | cgtcgagcga | 120 |
| agatgtcgtg | gcagacgtac  | gtggacgagc | aaccctggat | gtgcgagatc | gagggccacc | 180 |
| acctcacgtc | ggcgcccatc  | gtcggccacg | rgcgccacct | gggtcagag  | caccgcattc | 240 |
| cccagattca | agcccagagga | gatggctgcc | atcatgaagg | atttcgacga | gccggggcac | 300 |
| tcgccccgac | cggcctgata  | ctgggaggca | ccaagtacat | ggtcattcaa | gtcgaacctg | 360 |
| gagctgtcat | ccgtggcaag  | aagggatccg | ggggcatcac | tgtgaagaaa | acagggcagt | 420 |
| cactcatcat | tggcatctac  | gacgag     |            |            |            |     |

(2) INFORMATION FOR SEQ ID NO:1253:

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 105 amino acids  
    (B) TYPE: amino acid  
    (C) STRANDEDNESS:  
    (D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
    (A) NAME/KEY: peptide  
    (B) LOCATION: 1..105  
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597457

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Leu | Val | Thr | Ser | Gln | Lys | Thr | Val | Gly | Ser | Ser | Cys | Phe | Thr |
| 1   |     |     | 5   |     |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Arg | Ala | His | Pro | Pro | Ala | Thr | Thr | Gly | Leu | Pro | Leu | Arg | Pro | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Thr | Asp | Gln | Arg | Val | Glu | Arg | Arg | Cys | Arg | Gly | Arg | Arg | Thr | Trp |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Ser | Asn | Pro | Gly | Cys | Ala | Arg | Ser | Arg | Ala | Thr | Thr | Ser | Arg | Arg |
|     |     |     | 50  |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Arg | Pro | Ser | Ser | Ala | Thr | Xaa | Ala | Thr | Trp | Ala | Gln | Ser | Thr | Ala | Phe |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |     |
| Pro | Glu | Phe | Lys | Pro | Glu | Glu | Met | Ala | Ala | Ile | Met | Lys | Asp | Phe | Asp |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Glu | Pro | Gly | His | Ser | Pro | Arg | Pro | Ala |     |     |     |     |     |     |     |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1254:

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 148 amino acids  
    (B) TYPE: amino acid  
    (C) STRANDEDNESS:  
    (D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
    (A) NAME/KEY: peptide  
    (B) LOCATION: 1..148  
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597458

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Arg | His | Gln | Ser | Glu | Asn | Ser | Gly | Ile | Glu | Leu | Phe | His | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Thr | Ser | Thr | Ser | Ser | Gly | Asp | His | Arg | Pro | Pro | Ser | Pro | Ser | Ser | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Arg | Pro | Thr | Arg | Arg | Ala | Lys | Met | Ser | Trp | Gln | Thr | Tyr | Val | Asp |
|     |     |     | 35  |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Glu | Gln | Pro | Trp | Met | Cys | Glu | Ile | Glu | Gly | His | His | Leu | Thr | Ser | Ala |
| 50  |     |     |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |

Ala Ile Val Gly His Xaa Arg His Leu Gly Ser Glu His Arg Ile Pro  
65 70 75 80  
Arg Val Gln Ala Arg Gly Asp Gly Cys His His Glu Gly Phe Arg Arg  
85 90 95  
Ala Gly Ala Leu Ala Pro Thr Gly Leu Ile Leu Gly Gly Thr Lys Tyr  
100 105 110  
Met Val Ile Gln Val Glu Pro Gly Ala Val Ile Arg Gly Lys Lys Gly  
115 120 125  
Ser Gly Gly Ile Thr Val Lys Lys Thr Gly Gln Ser Leu Ile Ile Gly  
130 135 140  
Ile Tyr Asp Glu  
145

(2) INFORMATION FOR SEQ ID NO:1255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..108
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597459

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

Met Ser Trp Gln Thr Tyr Val Asp Glu Gln Pro Trp Met Cys Glu Ile  
1 5 10 15  
Glu Gly His His Leu Thr Ser Ala Ala Ile Val Gly His Xaa Arg His  
20 25 30  
Leu Gly Ser Glu His Arg Ile Pro Arg Val Gln Ala Arg Gly Asp Gly  
35 40 45  
Cys His His Glu Gly Phe Arg Arg Ala Gly Ala Leu Ala Pro Thr Gly  
50 55 60  
Leu Ile Leu Gly Gly Thr Lys Tyr Met Val Ile Gln Val Glu Pro Gly  
65 70 75 80  
Ala Val Ile Arg Gly Lys Lys Gly Ser Gly Gly Ile Thr Val Lys Lys  
85 90 95  
Thr Gly Gln Ser Leu Ile Ile Gly Ile Tyr Asp Glu  
100 105

(2) INFORMATION FOR SEQ ID NO:1256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..472
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597476

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atctcagcag | tgacgaactc | gaagcttgck | ttcttgtagt | agaggtcggc | agcaagcggg | 60  |
| ggtagagcga | gaggtcgaga | agatgaagag | cagcactctg | ttggcgatcc | tagttctcca | 120 |
| ggcccttctg | gtctctgcgg | ccgtggcaaa | ggacctgcag | ggccgacgac | gaagaagcag | 180 |
| tgctggttgc | ggcgagtgc  | ccasctggtc | ggcggtgtgg | acctgcgacg | acctcctcac | 240 |
| caagtgcgcc | gccacctgca | agaactgcgt | ccccgtgtcc | acggacaagg | gggccatcaa | 300 |
| gtacaggtgc | cgcgacttcc | tccccgaaaa | ctgcggctgc | aagatccact | agagactcat | 360 |
| ccaattccac | catggccgcg | cgccacagcg | gcacagccga | ttggatcctt | ccatgttctt | 420 |
| ccgtccgtcc | gccttgctac | aagcaggcag | ccacaccaat | aagctagctc | tt         |     |

(2) INFORMATION FOR SEQ ID NO:1257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89 amino acids

09639980 "101300

- (B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
(A) NAME/KEY: peptide  
(B) LOCATION: 1..89  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597477  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

Met Lys Ser Ser Thr Leu Leu Ala Ile Leu Val Leu Gln Ala Leu Leu  
1 5 10 15  
Val Ser Ala Ala Val Ala Lys Asp Leu Gln Gly Arg Arg Arg Arg Ser  
20 25 30  
Ser Ala Gly Cys Gly Glu Cys Thr Xaa Trp Ser Gly Val Trp Thr Cys  
35 40 45  
Asp Asp Leu Leu Thr Lys Cys Ala Ala Thr Cys Lys Asn Cys Val Pro  
50 55 60  
Val Ser Thr Asp Lys Gly Ala Ile Lys Tyr Arg Cys Arg Asp Phe Leu  
65 70 75 80  
Pro Glu Asn Cys Gly Cys Lys Ile His  
85

(2) INFORMATION FOR SEQ ID NO:1258:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 406 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: DNA (genomic)  
(ix) FEATURE:  
(A) NAME/KEY: -  
(B) LOCATION: 1..406  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597478  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:

accaaggaaa ttcacaaagc gcctagcaaa agcatacttc ccgaagcact cttgcaatcc 60  
actgagttct gtttgttgag acgcatagag ctagtctgcta gcgtcgacaa tgctcgctcgt 120  
gaggcgcacg aacgtgttcg accccttctc gatggacctc tgggatccct tcgacaccat 180  
gttcgcgtcc atcgtcccgt cggcgacctc caccaactcc gagactgccg ccttcgccag 240  
cgcccgcatc gactggaagg agacgcccga ggsgcacgtc ttcaaggccg acctccccgg 300  
cgtcaagaag gaggaggtca aggtcgaggt cgaagmggnc aacgtgctgg tcatcagcgg 360  
ccagcgcasa gggagaagga ggacaaggac gacaagtggc accgcg

(2) INFORMATION FOR SEQ ID NO:1259:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 135 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
(A) NAME/KEY: peptide  
(B) LOCATION: 1..135  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597479  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:

Thr Lys Glu Ile His Lys Ala Pro Ser Lys Ser Ile Leu Pro Glu Ala  
1 5 10 15  
Leu Leu Gln Ser Thr Glu Phe Cys Leu Leu Arg Arg Ile Glu Leu Ala  
20 25 30  
Ala Ser Val Asp Asn Val Ala Arg Glu Ala His Glu Arg Val Arg Pro  
35 40 45  
Leu Leu Asp Gly Pro Leu Gly Ser Leu Arg His His Val Pro Leu His  
50 55 60  
Arg Pro Val Gly Asp Leu His Gln Leu Arg Asp Cys Arg Leu Arg Gln

09589980-101300

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | Pro | His | Arg | Leu | Glu | Gly | Asp | Ala | Arg | Xaa | Ala | Arg | Leu | Gln | Gly |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Arg | Pro | Pro | Arg | Arg | Gln | Glu | Gly | Gly | Gly | Gln | Gly | Arg | Gly | Arg | Xaa |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Xaa | Gln | Arg | Ala | Gly | His | Gln | Arg | Pro | Ala | Xaa | Arg | Glu | Lys | Glu | Asp |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Lys | Asp | Asp | Lys | Trp | His | Arg |     |     |     |     |     |     |     |     |     |
|     | 130 |     |     |     |     | 135 |     |     |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1260:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..99  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597480

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:

[illegible]

(2) INFORMATION FOR SEQ ID NO:1261:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..85  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597481

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

[illegible]

(2) INFORMATION FOR SEQ ID NO:1262:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..463
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597482

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| accacagcat | ccgcrtttcc | ccgaccacac  | cgttcctccg | agcccaggag | cacccccgcg | 60  |
| ccaggaggaa | gtttgttctt | ttaacaatat  | gtcgaggag  | gagaatgttt | acatggccaa | 120 |
| gttggctgag | caggctgaaa | ggtatgagga  | gatggttgag | tatatggaga | aggtggctaa | 180 |
| gactgtagat | gtggaagagc | tactgttga   | ggagcgtaac | cttctgtctg | ttgcatacaa | 240 |
| gaatgtgatt | ggggctcgcc | gcgcttcattg | gcgcattgtt | tcttccattg | aacaaaagga | 300 |
| ggagtcccgt | aagaacgaag | agcatgtgaa  | ccttatcaag | gaatatcgtg | gcaagatcga | 360 |
| ggctgaactg | agcaatatct | gtgatggaat  | cttgaagctg | cttgactccc | acctagtgcc | 420 |
| ttcttctact | gctgctgaat | caaaggtctt  | ctacctcaag | atg        |            |     |

(2) INFORMATION FOR SEQ ID NO:1263:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..154
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597483

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Pro | Gln | His | Pro | Xaa | Phe | Pro | Asp | His | Thr | Val | Pro | Pro | Ser | Pro | Gly |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |
| Ala | Pro | Pro | Arg | Gln | Glu | Glu | Val | Cys | Ser | Phe | Asn | Asn | Met | Ser | Arg |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Glu | Glu | Asn | Val | Tyr | Met | Ala | Lys | Leu | Ala | Glu | Gln | Ala | Glu | Arg | Tyr |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Glu | Glu | Met | Val | Glu | Tyr | Met | Glu | Lys | Val | Ala | Lys | Thr | Val | Asp | Val |  |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| Glu | Glu | Leu | Thr | Val | Glu | Glu | Arg | Asn | Leu | Leu | Ser | Val | Ala | Tyr | Lys |  |
|     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |  |
| Asn | Val | Ile | Gly | Ala | Arg | Arg | Ala | Ser | Trp | Arg | Ile | Val | Ser | Ser | Ile |  |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |  |
| Glu | Gln | Lys | Glu | Glu | Ser | Arg | Lys | Asn | Glu | Glu | His | Val | Asn | Leu | Ile |  |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Lys | Glu | Tyr | Arg | Gly | Lys | Ile | Glu | Ala | Glu | Leu | Ser | Asn | Ile | Cys | Asp |  |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
| Gly | Ile | Leu | Lys | Leu | Leu | Asp | Ser | His | Leu | Val | Pro | Ser | Ser | Thr | Ala |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Ala | Glu | Ser | Lys | Val | Phe | Tyr | Leu | Lys | Met |     |     |     |     |     |     |  |
| 145 |     |     |     |     |     | 150 |     |     |     |     |     |     |     |     |     |  |

(2) INFORMATION FOR SEQ ID NO:1264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..125
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597484

09669960 "101300"

| (X1) SEQUENCE DESCRIPTION: 521-1000 |            |            |            |             |            |  |     |
|-------------------------------------|------------|------------|------------|-------------|------------|--|-----|
| agaaacccta                          | acactcatca | cgcgcgcact | gatctgctct | gttgctgggtg | actaggagca |  | 60  |
| gtagcgrnga                          | gggattctgg | atggccaagt | cgaagaacca | cacggcgcac  | aaccagtcgt |  | 120 |
| tcaaggcgca                          | caagaacggc | atcaagaagc | ccaagcgcca | ccgccagacc  | tccaccaagg |  | 180 |
| ggatggaccc                          | gaagtttctg | aggaacttga | ggtactcaar | gaagggcaac  | aagaagagtg |  | 240 |

(2) INFORMATION FOR SEQ ID NO:1267:

(A) LENGTH: 60 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..60

(D) OTHER INFORMATION: / Ceres Seq. ID 1597500

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

Met Ala Lys Ser Lys Asn His Thr Ala His Asn Gln Ser Phe Lys Ala  
1 5 10 15

His Lys Asn Gly Ile Lys Lys Pro Lys Arg His Arg Gln Thr Ser Thr

Lys Gly Met Asp Pro Lys Phe Leu Arg Asn Leu Arg Tyr Ser Xaa Lys

Gly Asn Lys Lys Ser Gly Glu Ala Glu Ser Glu Glu  
50 55 60

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 456 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: -

(B) LOCATION: 1..456

(D) OTHER INFORMATION: / Ceres Seq. ID 1597502

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| aaactacacc  | acaccgcacc | ggcaccacca  | ccaaccgagc | ggnnccaggc  | tctgtctcag | 60  |
| gaagggggaga | agaggcgagc | cttccttggg  | aagtcgcagg | aggagagaag  | gggaacaaag | 120 |
| atgggggcgcg | gcaagatcga | gatcaagcgg  | atcgagaact | ccaccaaccg  | ccagtgcact | 180 |
| tctccaagcg  | ccgcaacggg | atcctcaaga  | aggcgcggga | gatacagcgtg | ctctgcgcag | 240 |
| ccgaggtcgg  | cgtctcgtct | tctccagcgc  | cggcaaagtg | taccgggggt  | cattggtcga | 300 |
| gtgcgaggat  | aactggaatt | gccagctcga  | gaacataacc | ttcactgcca  | aggatgggaa | 360 |
| ggtttcgcag  | ctggagcacg | tcttcattcag | aggaagcaga | gtbagattta  | tgattatacc | 420 |
| tatatgtctc  | aagaacqctc | ccatgttcaa  | gcgctt     |             |            |     |

(2) INFORMATION FOR SEQ ID NO:1269:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..151

(D) OTHER INFORMATION: / Ceres Seq. ID 1597503

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

|     |     |     |     |   |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Tyr | Thr | Thr |   | Pro | His | Arg | His | His | Gln | Pro | Ser | Xaa | Xaa | Arg |
| 1   |     |     |     | 5 |     |     |     |     | 10  |     |     |     |     | 15  |     |

Leu Leu Leu Arg Lys Gly Arg Arg Gly Glu Pro Ser Leu Gly Ser Arg  
20 25 30

Arg Arg Arg Glu Gly Glu Gln Arg Trp Gly Ala Ala Arg Ser Arg Ser  
35 40 45

[illegible]

Ser Gly Ser Arg Thr Pro Pro Thr Ala Ser Asp Leu Leu Gln Ala Pro  
50 55 60  
Gln Arg Asp Pro Gln Glu Gly Ala Gly Asp Gln Arg Ala Leu Arg Arg  
65 70 75 80  
Arg Gly Arg Arg Leu Val Phe Ser Ser Ala Gly Lys Val Tyr Arg Gly  
85 90 95  
Ser Leu Val Glu Cys Glu Asp Asn Trp Asn Cys Gln Leu Glu Asn Ile  
100 105 110  
Thr Phe Thr Ala Lys Asp Gly Lys Val Ser Gln Leu Glu His Val Phe  
115 120 125  
Ile Arg Gly Ser Arg Xaa Arg Phe Met Ile Ile Pro Asp Met Leu Lys  
130 135 140  
Asn Ala Pro Met Phe Lys Arg  
145 150

(2) INFORMATION FOR SEQ ID NO:1270:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..111
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597504

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

Thr Thr Pro His Arg Thr Gly Thr Thr Thr Asn Arg Ala Xaa Pro Gly  
1 5 10 15  
Ser Cys Ser Gly Arg Gly Glu Glu Ala Ser Leu Pro Trp Glu Val Ala  
20 25 30  
Gly Gly Glu Lys Gly Asn Lys Asp Gly Ala Arg Gln Asp Arg Asp Gln  
35 40 45  
Ala Asp Arg Glu Leu His Gln Pro Pro Val Thr Phe Ser Lys Arg Arg  
50 55 60  
Asn Gly Ile Leu Lys Lys Ala Arg Glu Ile Ser Val Leu Cys Asp Ala  
65 70 75 80  
Glu Val Gly Val Ser Ser Ser Pro Ala Pro Ala Lys Cys Thr Gly Gly  
85 90 95  
His Trp Ser Ser Ala Arg Ile Thr Gly Ile Ala Ser Ser Arg Thr  
100 105 110

(2) INFORMATION FOR SEQ ID NO:1271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..494
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597519

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

|                                                                     |     |
|---------------------------------------------------------------------|-----|
| atcaactcgc aattccgcat tcgttccaac tcctgagcac tttctcctcg tcccagacaa   | 60  |
| gccaatcgaa gccgagatac gaccatggac tccaccggca ccggagcagg gggtaggggg   | 120 |
| aagaagggag cggccgggcg caaggtcggc gggccaagga agaagtcggt gtcgaggtcc   | 180 |
| gtgaaggccg gtctccagtt ccccgctcggc cgcacgaggc gctacttgaa gaagggccgc  | 240 |
| tacgcgcang ttcggcacccg gcgcccccgct ctacctcgcc gctgtcctcg aatacctcgc | 300 |
| cgctgagggt ctggagctcg ccggtaatgc tgccagggac aaggcgatca agaggtttca   | 360 |
| ggtkaggaac atcgtggaac aggcggccat caggacgctc caggaagcat gcgtctatga   | 420 |
| tggctacgtc ctcccgaagc tgtacgcaa ggtgcaccac tgcgtctcgt gcgcgatcca    | 480 |
| mgstcacatc gtcc                                                     |     |



(2) INFORMATION FOR SEQ ID NO:1272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..60  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597520

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Arg | Asn | Ser | Ala | Phe | Val | Pro | Thr | Pro | Glu | His | Phe | Leu | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | Pro | Asp | Lys | Pro | Ile | Glu | Ala | Glu | Ile | Arg | Pro | Trp | Thr | Pro | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Pro | Glu | Gln | Gly | Val | Arg | Gly | Arg | Arg | Glu | Arg | Pro | Gly | Ala | Arg |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Ala | Gly | Gln | Gly | Arg | Ser | Arg | Cys | Arg | Gly | Pro |     |     |     |     |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..73  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597521

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

[illegible]

(2) INFORMATION FOR SEQ ID NO:1274:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..56  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597522

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Pro | Gly | Thr | Arg | Arg | Ser | Arg | Gly | Phe | Arg | Xaa | Gly | Thr | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Trp | Asn | Arg | Arg | Pro | Ser | Gly | Thr | Ser | Arg | Lys | His | Ala | Ser | Met | Met |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Thr | Ser | Ser | Arg | Ser | Cys | Thr | Pro | Arg | Cys | Thr | Thr | Ala | Ser | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Arg | Ser | Xaa | Xaa | Thr | Ser | Ser |     |     |     |     |     |     |     |     |

55

(i) SEQUENCE CHARACTERISTICS:

- (ii) MOLECULE TYPE: DNA (genomic)

- (ix) FEATURE:

- (A) NAME/KEY: -  
(B) LOCATION: 1..364  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597540

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

|             |             |            |             |             |            |     |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| aaactcgcaa  | ttccgcattc  | gttccaactc | ctgagcactt  | tctcctcgtc  | cccgacaagc | 60  |
| caatcgaagc  | cgagatacgg  | ccatggactc | caccggcacc  | ggagcagggg  | gtaaggggaa | 120 |
| gangggagcg  | gccggggcgca | aggtcggcgg | gccaaaggaag | aagtcgggtgt | cgaggtccgt | 180 |
| gaaggccggg  | ctccagttcc  | ccgtcggccg | catcggggcg  | tacttgaaga  | agggccgcta | 240 |
| cgcgcastgt  | ncggcacccg  | cgcccccgtc | tacctcgcmg  | ctgtcctcga  | atacctckcc | 300 |
| gkaattttctg | mcaactmnd   | gtaatsctgc | sasrgacamc  | agaagactcg  | cattattccr | 360 |
| cgcc        |             |            |             |             |            |     |

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..59  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597541

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Asn | Ser | Ala | Phe | Val | Pro | Thr | Pro | Glu | His | Phe | Leu | Leu | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Pro | Asp | Lys | Pro | Ile | Glu | Ala | Glu | Ile | Arg | Pro | Trp | Thr | Pro | Pro | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Glu | Gln | Gly | Val | Arg | Gly | Arg | Xaa | Glu | Arg | Pro | Gly | Ala | Arg | Ser |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Gly | Gln | Gly | Arg | Ser | Arg | Cys | Arg | Gly | Pro |     |     |     |     |     |
|     | 50  |     |     |     |     | 55  |     |     |     |     |     |     |     |     |     |

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 94 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..94  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597542

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Ser | Thr | Gly | Thr | Gly | Ala | Gly | Gly | Lys | Gly | Lys | Xaa | Gly | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Gly | Arg | Lys | Val | Gly | Gly | Pro | Arg | Lys | Lys | Ser | Val | Ser | Arg | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Lys | Ala | Gly | Leu | Gln | Phe | Pro | Val | Gly | Arg | Ile | Gly | Arg | Tyr | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Lys | Lys | Gly | Arg | Tyr | Ala | Xaa | Cys | Xaa | Ala | Pro | Ala | Pro | Pro | Ser | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Xaa | Leu | Ser | Ser | Asn | Thr | Xaa | Pro | Xaa | Phe | Leu | Xaa | Thr | Xaa | Xaa |

65                      70                      75                      80  
Asn Xaa Xaa Xaa Asp Xaa Arg Arg Leu Ala Leu Phe Xaa Ala  
                      85                      90

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 479 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)

- (ix) FEATURE:

- (A) NAME/KEY: -  
(B) LOCATION: 1..479  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597553

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

| (X1) SEQUENCE DESCRIPTION: SEQ ID: 1 |            |            |            |             |             |  |     |
|--------------------------------------|------------|------------|------------|-------------|-------------|--|-----|
| attttcggca                           | agattgcaac | agggtcgctc | ggtcgcggtt | ctcctacgcg  | gtcgcgtgggc |  | 60  |
| tgtgctgcct                           | gctgttgcat | cgtctcctcg | tttaaacggg | cgaactcaag  | attgcaacag  |  | 120 |
| ggtcgtccgc                           | cgccaccaat | tgctagcgca | atcctagccc | tagcccagcg  | cccctccctg  |  | 180 |
| cgtcgtgctc                           | ggtagcgatg | gcgtcgtttt | ctgaagcgcc | cccggggaac  | ccaactgctg  |  | 240 |
| gcgagaagat                           | cttcaagacc | aagtgcgcgc | agtgccacac | cgtcgacaa   | ggcgccggcc  |  | 300 |
| acaagcaagg                           | tcctaatttg | aatggctctg | ttgggaggca | gtctggtaca  | acacctggct  |  | 360 |
| actcttactg                           | ttcggctaac | agaacatg   | ctgtgatttg | ggagggaac   | actttgtatg  |  | 420 |
| actacttgct                           | taattccaag | aagtacattc | ctggaaccaa | gatgggtattc | cctggactg   |  |     |

(2) INFORMATION FOR SEQ ID NO:1279:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..64  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597554

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Gly | Lys | Ile | Ala | Thr | Gly | Ser | Ser | Gly | Arg | Val | Ser | Pro | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Ser | Val | Gly | Cys | Ala | Ala | Cys | Cys | Cys | Ile | Val | Ser | Ser | Phe | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Ala | Asn | Ser | Arg | Leu | Gln | Gln | Gly | Arg | Pro | Pro | Pro | Pro | Ile | Ala |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Ala | Ile | Leu | Ala | Leu | Ala | Gln | Arg | Pro | Ser | Leu | Arg | Arg | Ala | Arg |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1280:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..51  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597555

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

(X1) SEQUENCE DESCRIPTION: *Arg*

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Ala | Arg | Leu | Gln | Gln | Gly | Arg | Pro | Val | Ala | Phe | Leu | Leu | Arg |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Gly | Pro | Trp | Ala | Val | Leu | Pro | Ala | Val | Ala | Ser | Ser | Pro | Arg | Leu | Asn |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

Gly Arg Thr Gln Asp Cys Asn Arg Val Val Arg Arg His Gln Leu Leu  
35 40 45  
Ala Gln Ser  
50

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 94 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..94  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597556

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

| (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met                                     | Ala | Ser | Phe |     | Ser | Glu | Ala | Pro | Pro | Gly | Asn | Pro | Thr | Ala | Gly | Glu |
| 1                                       |     |     |     | 5   |     |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Lys                                     | Ile | Phe | Lys | Thr | Lys | Cys | Ala | Gln | Cys | His | Thr | Val | Asp | Lys | Gly |     |
|                                         |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Ala                                     | Gly | His | Lys | Gln | Gly | Pro | Asn | Leu | Asn | Gly | Leu | Phe | Gly | Arg | Gln |     |
|                                         |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Ser                                     | Gly | Thr | Thr | Pro | Gly | Tyr | Ser | Tyr | Ser | Ser | Ala | Asn | Lys | Asn | Met |     |
|                                         | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Ala                                     | Val | Ile | Trp | Glu | Glu | Asn | Thr | Leu | Tyr | Asp | Tyr | Leu | Leu | Asn | Pro |     |
| 65                                      |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Lys                                     | Lys | Tyr | Ile | Pro | Gly | Thr | Lys | Met | Val | Phe | Pro | Gly | Leu |     |     |     |
|                                         |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -  
(B) LOCATION: 1..116  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597579

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

(X1) SEQUENCE DESCRIPTION: SEQ ID NO:1202:

|            |             |            |            |           |            |    |
|------------|-------------|------------|------------|-----------|------------|----|
| cnaaaaaagg | tacatcatcat | ctcttccaaa | tcccaccagc | aaatcccaa | tctctccgag | 60 |
| ttcgagcgac | catgtcgggg  | cgtggcaagg | gcgggaaggg | tctgggcaa | ggcggc     |    |

(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 38 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..38  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597580

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

[illegible]

(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 38 amino acids  
    (B) TYPE: amino acid  
    (C) STRANDEDNESS:  
    (D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
    (A) NAME/KEY: peptide  
    (B) LOCATION: 1..38  
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597581  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:  
Xaa Lys Arg Tyr Thr Ser Ser Leu Pro Asn Pro Thr Ser Lys Ser Pro  
1                  5                  10                  15  
Ile Pro Pro Ser Ser Ser Asp His Val Gly Ala Trp Gln Gly Arg Glu  
                  20                  25                  30  
Gly Ser Gly Gln Arg Arg  
                  35

(2) INFORMATION FOR SEQ ID NO:1285:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 38 amino acids  
        (B) TYPE: amino acid  
        (C) STRANDEDNESS:  
        (D) TOPOLOGY: linear  
    (ii) MOLECULE TYPE: peptide  
    (ix) FEATURE:  
        (A) NAME/KEY: peptide  
        (B) LOCATION: 1..38  
        (D) OTHER INFORMATION: / Ceres Seq. ID 1597582  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:  
Lys Lys Gly Thr His Leu Phe Gln Ile Pro Pro Ala Asn Pro Gln  
1                  5                  10                  15  
Phe Leu Arg Val Arg Ala Thr Met Ser Gly Arg Gly Lys Gly Lys  
                  20                  25                  30  
Gly Leu Gly Lys Gly Gly  
                  35

(2) INFORMATION FOR SEQ ID NO:1286:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 486 base pairs  
        (B) TYPE: nucleic acid  
        (C) STRANDEDNESS: single  
        (D) TOPOLOGY: linear  
    (ii) MOLECULE TYPE: DNA (genomic)  
    (ix) FEATURE:  
        (A) NAME/KEY: -  
        (B) LOCATION: 1..486  
        (D) OTHER INFORMATION: / Ceres Seq. ID 1597589  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:  
accgcagcca caccccaaca tcaaaaccct cccatctctt cccctccgcc gccgtctctg          60  
ctctcaagat cgccatggcg tcagaaaaga agcagtcgaa cccgatgcgg gagatcaagg          120  
tgcagaagct cgtgctcaat atctccgttg gagagagtgg agatcgactc acccgcgccg          180  
ccaaggtggt ggagcagttg agtgggcagt ctccggtttt ctccaaggca aggtatactg          240  
tgaggtcttt cggtattcgt cgtaatgaga agattgcatg ctacgttacg gtcaggggtg          300  
agaaggcaat gcagcttctt gagagtggcc tcaaggtgaa ggagtatgag cttctgagga          360  
ggaacttcag tgatactggc tgctttggtt ttggtattca ggagcacatt gatcttgaa          420  
tcaagtatga cccgtctact ggtatttatn gcatggactt ttacgtcgtt ctggaacgag          480  
ctcggt

(2) INFORMATION FOR SEQ ID NO:1287:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 161 amino acids  
        (B) TYPE: amino acid  
        (C) STRANDEDNESS:

00689980 101300

- (D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide  
(ix) FEATURE:  
    (A) NAME/KEY: peptide  
    (B) LOCATION: 1..161  
    (D) OTHER INFORMATION: / Ceres Seq. ID 1597590  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

Arg Ser His Thr Pro Thr Ser Lys Pro Ser His Leu Phe Pro Ser Ala  
1                   5                   10                   15  
Ala Val Ser Ala Leu Lys Ile Ala Met Ala Ser Glu Lys Lys Gln Ser  
                  20                   25                   30  
Asn Pro Met Arg Glu Ile Lys Val Gln Lys Leu Val Leu Asn Ile Ser  
                  35                   40                   45  
Val Gly Glu Ser Gly Asp Arg Leu Thr Arg Ala Ala Lys Val Leu Glu  
                  50                   55                   60  
Gln Leu Ser Gly Gln Ser Pro Val Phe Ser Lys Ala Arg Tyr Thr Val  
65                   70                   75                   80  
Arg Ser Phe Gly Ile Arg Arg Asn Glu Lys Ile Ala Cys Tyr Val Thr  
                  85                   90                   95  
Val Arg Gly Glu Lys Ala Met Gln Leu Leu Glu Ser Gly Leu Lys Val  
                  100                   105                   110  
Lys Glu Tyr Glu Leu Leu Arg Arg Asn Phe Ser Asp Thr Gly Cys Phe  
                  115                   120                   125  
Gly Phe Gly Ile Gln Glu His Ile Asp Leu Gly Ile Lys Tyr Asp Pro  
                  130                   135                   140  
Ser Thr Gly Ile Tyr Xaa Met Asp Phe Tyr Val Val Leu Glu Arg Ala  
145                   150                   155                   160  
Arg

- (2) INFORMATION FOR SEQ ID NO:1288:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 137 amino acids  
        (B) TYPE: amino acid  
        (C) STRANDEDNESS:  
        (D) TOPOLOGY: linear  
    (ii) MOLECULE TYPE: peptide  
    (ix) FEATURE:  
        (A) NAME/KEY: peptide  
        (B) LOCATION: 1..137  
        (D) OTHER INFORMATION: / Ceres Seq. ID 1597591  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

Met Ala Ser Glu Lys Lys Gln Ser Asn Pro Met Arg Glu Ile Lys Val  
1                   5                   10                   15  
Gln Lys Leu Val Leu Asn Ile Ser Val Gly Glu Ser Gly Asp Arg Leu  
                  20                   25                   30  
Thr Arg Ala Ala Lys Val Leu Glu Gln Leu Ser Gly Gln Ser Pro Val  
                  35                   40                   45  
Phe Ser Lys Ala Arg Tyr Thr Val Arg Ser Phe Gly Ile Arg Arg Asn  
                  50                   55                   60  
Glu Lys Ile Ala Cys Tyr Val Thr Val Arg Gly Glu Lys Ala Met Gln  
65                   70                   75                   80  
Leu Leu Glu Ser Gly Leu Lys Val Lys Glu Tyr Glu Leu Leu Arg Arg  
                  85                   90                   95  
Asn Phe Ser Asp Thr Gly Cys Phe Gly Phe Gly Ile Gln Glu His Ile  
                  100                   105                   110  
Asp Leu Gly Ile Lys Tyr Asp Pro Ser Thr Gly Ile Tyr Xaa Met Asp  
                  115                   120                   125  
Phe Tyr Val Val Leu Glu Arg Ala Arg  
                  130                   135

- (2) INFORMATION FOR SEQ ID NO:1289:  
    (i) SEQUENCE CHARACTERISTICS:

09689990 "1013400

Thr Asp Gly Ile Cys Ile Xaa Val Pro Asp Cys Cys Ile Pro Val Ser  
1 5 10 15  
Ser Val Ser Phe Val Gly Ser Arg Xaa Arg Thr Arg Arg Met Ser Cys  
20 25 30

Cys Gly Gly Asn Cys Gly Xaa Gly Ala Gly Cys Lys Cys Gly Thr Ala  
35 40 45  
Ala Glu Gly Ala Arg Cys Thr Arg Thr Trp Leu Ser Arg  
50 55 60

(2) INFORMATION FOR SEQ ID NO:1292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..78
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597602

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

Met Tyr Pro Asp Met Ala Glu Gln Val Thr Thr Thr Thr Gln Thr Leu  
1 5 10 15  
Ile Met Gly Val Ala Pro Ser Lys Gly Gly Phe Glu Ala Ala Ala Xaa  
20 25 30  
Leu Arg Thr Ala Gly Ala Ser Xaa Ala Pro Thr Ala Pro Ala Thr Pro  
35 40 45  
Ala Pro Ala Ser Glu Thr Thr Ala Met Thr Xaa Gln Gly Val Asn Trp  
50 55 60  
Asp Arg Lys Asp Ser Phe Ile Leu Ser Ser Ser Ile Ile Phe  
65 70 75

(2) INFORMATION FOR SEQ ID NO:1293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..74
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597603

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

Met Ala Glu Gln Val Thr Thr Thr Gln Thr Leu Ile Met Gly Val  
1 5 10 15  
Ala Pro Ser Lys Gly Gly Phe Glu Ala Ala Ala Xaa Leu Arg Thr Ala  
20 25 30  
Gly Ala Ser Xaa Ala Pro Thr Ala Pro Ala Thr Pro Ala Pro Ala Ser  
35 40 45  
Glu Thr Thr Ala Met Thr Xaa Gln Gly Val Asn Trp Asp Arg Lys Asp  
50 55 60  
Ser Phe Ile Leu Ser Ser Ser Ile Ile Phe  
65 70

(2) INFORMATION FOR SEQ ID NO:1294:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..449
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597620

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

gaagaggggaa ggggggatat cggggaaaaa aacacaaggt accagcagcg caaagagccg



(2) INFORMATION FOR SEQ ID NO:1295:

(A) LENGTH: 94 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

MOLECULE TYPE: peptid

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..94

(D) OTHER INFORMATION: / Ceres Seq. ID 1597621

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Gly | Arg | Gly | Asp | Ile | Gly | Glu | Lys | Asn | Thr | Arg | Tyr | Gln | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Lys | Glu | Pro | Gly | Val | Gly | Thr | Asp | Gln | Ala | Ala | Ala | Trp | Arg | Xaa |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Arg | Gly | Phe | Gly | Glu | Gln | Arg | Asp | His | Arg | Gly | Gly | Glu | Gln | Gly |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Glu | Pro | Arg | Asn | Gly | Gly | Ser | Ala | Arg | Trp | Leu | Pro | Ala | Ser | Cys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Cys | Ser | Ser | Ser | Pro | Gly | Thr | Thr | Arg | Cys | Met | Cys | Thr | Arg | Arg | Arg |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     |     | 80  |
| Arg | Ser | Arg | Arg | Arg | Arg | Arg | Ser | Arg | Ser | Pro | Arg | Gly | Ser |     |     |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1296:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 142 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..142

(D) OTHER INFORMATION: / Ceres Seq. ID 1597622

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | Glu | Gly | Gly | Ile | Ser | Gly | Lys | Lys | Thr | Gln | Gly | Thr | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Lys | Ser | Arg | Val | Leu | Ala | Gln | Ile | Arg | Arg | Pro | His | Gly | Asp | Xaa |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Phe | Ala | Asp | Ser | Ala | Asn | Asn | Val | Ile | Ile | Glu | Glu | Val | Asn | Lys | Gly |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Leu | Asn | Pro | Gly | Met | Val | Val | Leu | Leu | Asp | Gly | Cys | Gln | Leu | Pro | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Leu | Leu | Arg | Arg | Glu | Leu | Arg | Ala | Val | Cys | Val | Arg | Ala | Glu | Asp |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Ala | Pro | Ala | Glu | Glu | Glu | Glu | Ala | Gly | Leu | Gln | Glu | Glu | Ala | Glu | Glu |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Gly | Lys | Ala | Glu | Ala | Gly | Gly | Leu | Gly | Ala | Arg | Gly | Val | Asn | Arg | Gln |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Gly | Cys | Arg | Arg | Ser | Ala | Arg | Pro | Glu | Pro | Ala | Pro | Tyr | Leu | His | Asp |
|     |     | 115 |     |     |     |     | 120 |     |     |     | 125 |     |     |     |     |
| Cys | Arg | Arg | Lys | Lys | Ile | His | Leu | Glu | Pro | Arg | Cys | Ser |     |     |     |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |

[illegible]



(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 60 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ix) FEATURE:

(B) LOCATION: 1..60

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

(2) INFORMATION FOR SEQ ID NO:1301:

(A) LENGTH: 73 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ix) FEATURE:

(B) LOCATION: 1..73

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

(2) INFORMATION FOR SEQ ID NO:1302:

(A) LENGTH: 470 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ix) FEATURE:

(B) LOCATION: 1..470

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1502 |             |            |            |            |            |     |
|-------------------------------------------|-------------|------------|------------|------------|------------|-----|
| aacaatgcc                                 | attgccagc   | acccatccat | actttcagct | gttgatacaa | aaagagaaga | 60  |
| gagaatggcg                                | gavaaccgc   | agttgagtg  | tcttattact | caaacaaaga | agaaaaatat | 120 |
| agtgccaaag                                | ttcaccgaaa  | tcttccccgt | ggaggacacg | cctaccctta | cagcgcttct | 180 |
| atcacctccg                                | tccggaaaaga | agtgatcaaa | tactgcacca | accatacagg | catcgtccag | 240 |
| cccggtgctgc                               | cgctggagaa  | gaatgtcccc | gagctctggg | tctacaccga | gctcaaaacg | 300 |
| aagaccaggt                                | ccatcacgct  | cgccatacgt | atggacaacc | tctacctggg | cggcttcagg | 360 |
| acccccggcg                                | gtgtgggtggg | agttcggcaa | ggacggcgac | accacactcc | tcgacgacaa | 420 |

cgccaagtgg ctcggctttg gcgggccggt accaggacct catcgggcag

(2) INFORMATION FOR SEQ ID NO:1303:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..67  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597640

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

[illegible]

(2) INFORMATION FOR SEQ ID NO:1304:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..66  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597641

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

[illegible]

(2) INFORMATION FOR SEQ ID NO:1305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide  
(B) LOCATION: 1..69  
(D) OTHER INFORMATION: / Ceres Seq. ID 1597642

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Pro | Ser | Ser | Gly | Ser | Thr | Pro | Ser | Ser | Lys | Arg | Arg | Pro | Gly |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Pro | Ser | Arg | Ser | Pro | Tyr | Val | Trp | Thr | Thr | Ser | Thr | Trp | Ser | Ala | Ser |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |     |

Gly Pro Pro Ala Val Trp Trp Glu Phe Gly Lys Asp Gly Asp Thr His  
35 40 45  
Leu Leu Asp Asp Asn Ala Lys Trp Leu Gly Phe Gly Gly Pro Val Pro  
50 55 60  
Gly Pro His Arg Ala  
65

(2) INFORMATION FOR SEQ ID NO:1306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..371
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597658

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| accaaggaaa | ttcaciaaagc | gatactagct | agtccctacc  | aaagcatact | tcctgaaaca | 60  |
| ctcttgcaat | ccactgagtt  | ctgtttgttg | agacgcatag  | agctagagtc | gacaatgtcg | 120 |
| ctcgtgaggc | gcasaacgtg  | ttcgaccctt | tctccatgga  | cctctgggac | cccttcgaca | 180 |
| ccatgttccg | ctccatcgtc  | ccgtcggcga | cctccaccaa  | ctccgagact | gccgccttcg | 240 |
| ccagcgcccg | catcgactgg  | aaggagacgc | ccgaggcgca  | cgtgttcaag | gccgacctcc | 300 |
| ccggcgtcaa | gaaggaagag  | gtcaaggtcg | aggctcgagga | cggcaacatg | ctggtcatca | 360 |
| gcggccagcg | c           |            |             |            |            |     |

(2) INFORMATION FOR SEQ ID NO:1307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..123
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597659

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Thr | Lys | Glu | Ile | His | Lys | Ala | Ile | Leu | Ala | Ser | Pro | Tyr | Gln | Ser | Ile |  |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |  |
| Leu | Pro | Glu | Thr | Leu | Leu | Gln | Ser | Thr | Glu | Phe | Cys | Leu | Leu | Arg | Arg |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |  |
| Ile | Glu | Leu | Glu | Ser | Thr | Met | Ser | Leu | Val | Arg | Arg | Xaa | Thr | Cys | Ser |  |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     |     |     | 45  |     |  |
| Thr | Pro | Ser | Pro | Trp | Thr | Ser | Gly | Thr | Pro | Ser | Thr | Pro | Cys | Ser | Ala |  |
|     |     |     | 50  |     |     |     |     | 55  |     |     |     |     |     | 60  |     |  |
| Pro | Ser | Ser | Arg | Arg | Arg | Pro | Pro | Pro | Thr | Pro | Arg | Leu | Pro | Pro | Ser |  |
|     |     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |  |
| Pro | Ala | Pro | Ala | Ser | Thr | Gly | Arg | Arg | Arg | Pro | Arg | Arg | Thr | Cys | Ser |  |
|     |     |     |     |     |     | 85  |     |     |     |     | 90  |     |     |     | 95  |  |
| Arg | Pro | Thr | Ser | Pro | Ala | Ser | Arg | Arg | Lys | Arg | Ser | Arg | Ser | Arg | Ser |  |
|     |     |     |     |     |     | 100 |     |     |     |     | 105 |     |     |     | 110 |  |
| Arg | Thr | Ala | Thr | Cys | Trp | Ser | Ser | Ala | Ala | Ser |     |     |     |     |     |  |
|     |     |     |     |     |     | 115 |     |     |     |     |     |     |     |     | 120 |  |

(2) INFORMATION FOR SEQ ID NO:1308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

09589930-101300

(A) NAME/KEY: peptide

(B) LOCATION: 1..85

(D) OTHER INFORMATION: / Ceres Seq. ID 1597660

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

```
Met Ser Leu Val Arg Arg Xaa Thr Cys Ser Thr Pro Ser Pro Trp Thr
1      5      10      15
Ser Gly Thr Pro Ser Thr Pro Cys Ser Ala Pro Ser Ser Arg Arg Arg
20      25      30
Pro Pro Pro Thr Pro Arg Leu Pro Pro Ser Pro Ala Pro Ala Ser Thr
35      40      45
Gly Arg Arg Arg Pro Arg Arg Thr Cys Ser Arg Pro Thr Ser Pro Ala
50      55      60
Ser Arg Arg Lys Arg Ser Arg Ser Arg Ser Arg Thr Ala Thr Cys Trp
65      70      75      80
Ser Ser Ala Ala Ser
85
```

(2) INFORMATION FOR SEQ ID NO:1309:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 72 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..72

(D) OTHER INFORMATION: / Ceres Seq. ID 1597661

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

```
Met Asp Leu Trp Asp Pro Phe Asp Thr Met Phe Arg Ser Ile Val Pro
1      5      10      15
Ser Ala Thr Ser Thr Asn Ser Glu Thr Ala Ala Phe Ala Ser Ala Arg
20      25      30
Ile Asp Trp Lys Glu Thr Pro Glu Ala His Val Phe Lys Ala Asp Leu
35      40      45
Pro Gly Val Lys Lys Glu Glu Val Lys Val Glu Val Glu Asp Gly Asn
50      55      60
Met Leu Val Ile Ser Gly Gln Arg
65      70
```

(2) INFORMATION FOR SEQ ID NO:1310:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: -

(B) LOCATION: 1..236

(D) OTHER INFORMATION: / Ceres Seq. ID 1597666

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

```
acgcggaac cctagcagct caacaccctc gaggtacctc cattcgagct cggccgtgtc 60
ctcggagccg cgggagatgg cggatcagga gaccgtagct gtgggtgagg caccaacccc 120
ggttcttggg gaacgatgga cctgatgact gcctgcarc tcgtcatgaa gaagtcaggt 180
gctcacgatk gccttttgaa gggctctcgt gaggtgcc aagcatcgag aagcat
```

(2) INFORMATION FOR SEQ ID NO:1311:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

09689980 101300

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..47

(D) OTHER INFORMATION: / Ceres Seq. ID 1597667

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

Arg Gly Asn Pro Ser Ser Ser Thr Pro Ser Arg Tyr Leu His Ser Gln  
1 5 10 15  
Ser Ala Val Ser Ser Glu Pro Arg Glu Met Ala Asp Gln Glu Thr Val  
20 25 30  
Ala Val Val Glu Ala Pro Thr Pro Val Leu Gly Glu Arg Trp Thr  
35 40 45

(2) INFORMATION FOR SEQ ID NO:1312:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 31 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..31

(D) OTHER INFORMATION: / Ceres Seq. ID 1597668

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

Ala Glu Thr Leu Ala Ala Gln His Pro Arg Gly Thr Ser Ile Arg Ser  
1 5 10 15  
Arg Pro Cys Pro Arg Ser Arg Gly Arg Trp Arg Ile Arg Arg Pro  
20 25 30

(2) INFORMATION FOR SEQ ID NO:1313:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 33 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..33

(D) OTHER INFORMATION: / Ceres Seq. ID 1597669

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

Met Asp Leu Met Thr Ala Leu Xaa Leu Val Met Lys Lys Ser Gly Ala  
1 5 10 15  
His Asp Xaa Leu Leu Lys Gly Leu Arg Glu Ala Ala Lys Ala Ser Arg  
20 25 30

Ser

(2) INFORMATION FOR SEQ ID NO:1314:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 401 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: -

(B) LOCATION: 1..401

(D) OTHER INFORMATION: / Ceres Seq. ID 1597674

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

|                                                                   |     |
|-------------------------------------------------------------------|-----|
| ttctgaagtt tgcggcggcg cgtaggtagc ggcggtgtgc ttgtgatctc aatctcaacc | 60  |
| ccaggcgagc tgcggctccg tcacccgtcg atccacgcaa ccatgtcgag gaggaagacc | 120 |
| agggagccca aggaggagaa cgttaccctt ggacccactg tccgtgaagg agagtttgtb | 180 |
| tttggtgttg ctacatctt tgcattcctt aatgacacct tcattcatgt cactgatttg  | 240 |

tctgggaggg aaactttggt tcggatcact ggtggcatga aggttaaggc tgatcgtgat 300  
gagtcgtctc cttatgctgc tatgcttgct gcccaagatg ttgcacagcg ttgcaaggag 360  
ctcggatatca cagcgtgca cattaagctt cgtgccactg g

(2) INFORMATION FOR SEQ ID NO:1315:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..99
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597675

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

Met Ser Arg Arg Lys Thr Arg Glu Pro Lys Glu Glu Asn Val Thr Leu  
1 5 10 15  
Gly Pro Thr Val Arg Glu Gly Glu Phe Xaa Phe Gly Val Ala His Ile  
20 25 30  
Phe Ala Ser Phe Asn Asp Thr Phe Ile His Val Thr Asp Leu Ser Gly  
35 40 45  
Arg Glu Thr Leu Val Arg Ile Thr Gly Gly Met Lys Val Lys Ala Asp  
50 55 60  
Arg Asp Glu Ser Ser Pro Tyr Ala Ala Met Leu Ala Ala Gln Asp Val  
65 70 75 80  
Ala Gln Arg Cys Lys Glu Leu Gly Ile Thr Ala Leu His Ile Lys Leu  
85 90 95  
Arg Ala Thr

(2) INFORMATION FOR SEQ ID NO:1316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..399
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597698

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

catcaatagc cagttctaatt ctcaggttrg gggaaatagg cctcgcgggt cgcaaaccgc 60  
tctctgctga ttrrggattt cggaggcgct cgagttttca ggtaaactat agtttagtga 120  
cccatggctc gtactaagca aactgctcgc aagtccactg gaggaaggc tccwaggaaa 180  
caacttgcca ccaaggctgc ccgtaagtct gcacctacaa ctgggggagt aaagaagcct 240  
caccgttacc gccctggaac tggtgctctt cgtgaaatcc gcaagtatca gaagagcact 300  
gacctgctca taaggaagct tccgttccaa aggcttgta gggagattkc ccaggatttc 360  
aagactgata ttcgtttcca gagccatgcg gtgcttgcg

(2) INFORMATION FOR SEQ ID NO:1317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..92
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597699

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

Met Ala Arg Thr Lys Gln Thr Ala Arg Lys Ser Thr Gly Gly Lys Ala

09689980 "101300



1 5 10 15  
Xaa Arg Lys Gln Leu Ala Thr Lys Ala Arg Lys Ser Ala Pro Thr  
20 25 30  
Thr Gly Gly Val Lys Lys Pro His Arg Tyr Arg Pro Gly Thr Val Ala  
35 40 45  
Leu Arg Glu Ile Arg Lys Tyr Gln Lys Ser Thr Asp Leu Leu Ile Arg  
50 55 60  
Lys Leu Pro Phe Gln Arg Leu Val Arg Glu Ile Xaa Gln Asp Phe Lys  
65 70 75 80  
Thr Asp Leu Arg Phe Gln Ser His Ala Val Leu Ala  
85 90

(2) INFORMATION FOR SEQ ID NO:1318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..493
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597726

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| gaaggcatct ccaatctcct cgccccccac ggacctgaac cgagaaccgt taccgccgcc  | 60  |
| gcctctcgcc tagccgccgg agaagcgccg ctcgctcagg aggacagcca tggcgccgga  | 120 |
| gccggagatg atattatgaa cgagaagaat ccccgcccgc tcgacgagga tracatcgcg  | 180 |
| ctcctcaaaa cctatggact gggggccgtat tcgaccagca ttaagaaggt cgagaaggag | 240 |
| atcaaggaaa tggccaagaa aatcaacgac ctctgtggga taaaggagtc tgatacaggg  | 300 |
| ctggctccac ctagccagtg ggatttggtt tcagataagc agatgatgca agaagaacaa  | 360 |
| ccgttacaag tagcaagatg tacaagatt ataagcccta atacggatga tgccaaatat   | 420 |
| gttataaatg traacaaat tgcaaagttt gtggtcggat tgggagataa ggtctctcca   | 480 |
| actgatatcg agg                                                     |     |

(2) INFORMATION FOR SEQ ID NO:1319:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 164 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..164
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597727

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

Glu Gly Ile Ser Asn Leu Leu Ala Pro His Gly Pro Glu Pro Arg Thr  
1 5 10 15  
Val Thr Ala Ala Ala Ser Arg Leu Ala Ala Gly Glu Ala Pro Leu Ala  
20 25 30  
Gln Glu Asp Ser His Gly Ala Gly Ala Gly Asp Asp Ile Met Asn Glu  
35 40 45  
Lys Asn Pro Arg Pro Leu Asp Glu Asp Xaa Ile Ala Leu Leu Lys Thr  
50 55 60  
Tyr Gly Leu Gly Pro Tyr Ser Thr Ser Ile Lys Lys Val Glu Lys Glu  
65 70 75 80  
Ile Lys Glu Met Ala Lys Lys Ile Asn Asp Leu Cys Gly Ile Lys Glu  
85 90 95  
Ser Asp Thr Gly Leu Ala Pro Pro Ser Gln Trp Asp Leu Val Ser Asp  
100 105 110  
Lys Gln Met Met Gln Glu Glu Gln Pro Leu Gln Val Ala Arg Cys Thr  
115 120 125  
Lys Ile Ile Ser Pro Asn Thr Asp Asp Ala Lys Tyr Val Ile Asn Xaa

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130 135 140  
Lys Gln Ile Ala Lys Phe Val Val Gly Leu Gly Asp Lys Val Ser Pro  
145 150 155 160  
Thr Asp Ile Glu

(2) INFORMATION FOR SEQ ID NO:1320:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..119
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597728

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

Met Asn Glu Lys Asn Pro Arg Pro Leu Asp Glu Asp Xaa Ile Ala Leu  
1 5 10 15  
Leu Lys Thr Tyr Gly Leu Gly Pro Tyr Ser Thr Ser Ile Lys Lys Val  
20 25 30  
Glu Lys Glu Ile Lys Glu Met Ala Lys Lys Ile Asn Asp Leu Cys Gly  
35 40 45  
Ile Lys Glu Ser Asp Thr Gly Leu Ala Pro Pro Ser Gln Trp Asp Leu  
50 55 60  
Val Ser Asp Lys Gln Met Met Gln Glu Glu Gln Pro Leu Gln Val Ala  
65 70 75 80  
Arg Cys Thr Lys Ile Ile Ser Pro Asn Thr Asp Asp Ala Lys Tyr Val  
85 90 95  
Ile Asn Xaa Lys Gln Ile Ala Lys Phe Val Val Gly Leu Gly Asp Lys  
100 105 110  
Val Ser Pro Thr Asp Ile Glu  
115

(2) INFORMATION FOR SEQ ID NO:1321:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 425 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..425
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597732

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

caatgagttg aggagagtgg aacatgttga ccattctaga aagtytgcag agcargctgt 60  
aaaggcgatc aagggcaaag agtccggtga accagttccg gagtatgact acctgccata 120  
cttctactcc cgatcattcg acctggcgtg gcaattotac ggcgacaacg tgggcgaaac 180  
tattctgttt ggcgacagtg accccacctc cagcaagccc aagttcggct cgtactggat 240  
caaggacggc aaggtcttgg gcgccttccg ggagggcggg tcaccggacg agaacaaggc 300  
cattgccaaag gtggcgaaaaa cccagccgcc ggtagcgtaac ctcgaggagc tcaagaaggm 360  
tggcctccag ttcgccagca agatctgaga cgstcccgtt ccatgtaaat ttccgtgtca 420  
tcgtg

(2) INFORMATION FOR SEQ ID NO:1322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(D) OTHER INFORMATION: / Ceres Seq. ID 1597733

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Glu | Leu | Arg | Arg | Val | Glu | His | Val | Asp | His | Ser | Arg | Lys | Xaa | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Xaa | Ala | Val | Lys | Ala | Ile | Lys | Gly | Lys | Glu | Ser | Gly | Glu | Pro | Val |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Glu | Tyr | Asp | Tyr | Leu | Pro | Tyr | Phe | Tyr | Ser | Arg | Ser | Phe | Asp | Leu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Trp | Gln | Phe | Tyr | Gly | Asp | Asn | Val | Gly | Glu | Thr | Ile | Leu | Phe | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Asp | Ser | Asp | Pro | Thr | Ser | Ser | Lys | Pro | Lys | Phe | Gly | Ser | Tyr | Trp | Ile |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |     |
| Lys | Asp | Gly | Lys | Val | Leu | Gly | Ala | Phe | Leu | Glu | Gly | Gly | Ser | Pro | Asp |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Asn | Lys | Ala | Ile | Ala | Lys | Val | Ala | Lys | Thr | Gln | Pro | Pro | Val | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Leu | Glu | Glu | Leu | Lys | Lys | Xaa | Gly | Leu | Gln | Phe | Ala | Ser | Lys | Ile |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Thr | Cys | His | Thr | Ser | Thr | Pro | Asp | His | Ser | Thr | Trp | Arg | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asn | Ser | Thr | Ala | Thr | Thr | Trp | Ala | Lys | Leu | Ser | Cys | Leu | Ala | Thr | Val |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Pro | Pro | Pro | Ala | Ser | Pro | Ser | Ser | Ala | Arg | Thr | Gly | Ser | Arg | Thr |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Arg | Ser | Trp | Ala | Pro | Ser | Trp | Arg | Ala | Gly | His | Arg | Thr | Arg | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Pro | Leu | Pro | Arg | Trp | Arg | Lys | Pro | Ser | Arg | Arg | Ser | Leu | Thr | Ser |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | Ser | Ser | Arg | Arg | Xaa | Ala | Ser | Ser | Ser | Pro | Ala | Arg | Ser | Glu | Thr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Xaa | Pro | Phe | His | Val | Asn | Phe | Arg | Val | Ile | Val |     |     |     |     |     |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     |     |     |

ataaaaccct actaaccgcg tctcctctcc agcgccccgcc gtcgccgccg ccctcctctt

[illegible]

gggtcccgccg tccgtcgagg tcatcatggt gagggtcagt gtgctcaacg atgcgctcaa 120  
gtccatgtac aatgcagaga agaggggcaa gaggcaggtc atgatcaggc cgctcgccaa 180  
ggtgatcatc aagttcctga cggtcattga gcgtcatgga tacattggcg agttcgagta 240  
cgtggatgac cacagagctg ggaagattgt ggtggaactg aacggcagac taaacaaatg 300  
cgggtgtaatt agcccccggt ttgatgttgg ggtaaaggaa atcgaaggct ggactgcgag 360  
gctgcttccg tctcgccagt ttggctatat cgtgcttaca acctctgcgg gaattatgga 420  
tcacgaggag

(2) INFORMATION FOR SEQ ID NO:1325:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..115

(D) OTHER INFORMATION: / Ceres Seq. ID 1597742

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

Met Val Arg Val Ser Val Leu Asn Asp Ala Leu Lys Ser Met Tyr Asn  
1 5 10 15  
Ala Glu Lys Arg Gly Lys Arg Gln Val Met Ile Arg Pro Ser Ser Lys  
20 25 30  
Val Ile Ile Lys Phe Leu Thr Val Met Gln Arg His Gly Tyr Ile Gly  
35 40 45  
Glu Phe Glu Tyr Val Asp Asp His Arg Ala Gly Lys Ile Val Val Glu  
50 55 60  
Leu Asn Gly Arg Leu Asn Lys Cys Gly Val Ile Ser Pro Arg Phe Asp  
65 70 75 80  
Val Gly Val Lys Glu Ile Glu Gly Trp Thr Ala Arg Leu Leu Pro Ser  
85 90 95  
Arg Gln Phe Gly Tyr Ile Val Leu Thr Thr Ser Ala Gly Ile Met Asp  
100 105 110  
His Glu Glu  
115

(2) INFORMATION FOR SEQ ID NO:1326:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: peptide

(B) LOCATION: 1..102

(D) OTHER INFORMATION: / Ceres Seq. ID 1597743

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

Met Tyr Asn Ala Glu Lys Arg Gly Lys Arg Gln Val Met Ile Arg Pro  
1 5 10 15  
Ser Ser Lys Val Ile Ile Lys Phe Leu Thr Val Met Gln Arg His Gly  
20 25 30  
Tyr Ile Gly Glu Phe Glu Tyr Val Asp Asp His Arg Ala Gly Lys Ile  
35 40 45  
Val Val Glu Leu Asn Gly Arg Leu Asn Lys Cys Gly Val Ile Ser Pro  
50 55 60  
Arg Phe Asp Val Gly Val Lys Glu Ile Glu Gly Trp Thr Ala Arg Leu  
65 70 75 80  
Leu Pro Ser Arg Gln Phe Gly Tyr Ile Val Leu Thr Thr Ser Ala Gly  
85 90 95  
Ile Met Asp His Glu Glu  
100

0062980101300

(2) INFORMATION FOR SEQ ID NO:1327:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..90
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597744

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ile | Arg | Pro | Ser | Ser | Lys | Val | Ile | Ile | Lys | Phe | Leu | Thr | Val | Met |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gln | Arg | His | Gly | Tyr | Ile | Gly | Glu | Phe | Glu | Tyr | Val | Asp | Asp | His | Arg |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Gly | Lys | Ile | Val | Val | Glu | Leu | Asn | Gly | Arg | Leu | Asn | Lys | Cys | Gly |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Ile | Ser | Pro | Arg | Phe | Asp | Val | Gly | Val | Lys | Glu | Ile | Glu | Gly | Trp |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Thr | Ala | Arg | Leu | Leu | Pro | Ser | Arg | Gln | Phe | Gly | Tyr | Ile | Val | Leu | Thr |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Thr | Ser | Ala | Gly | Ile | Met | Asp | His | Glu | Glu |     |     |     |     |     |     |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1328:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..378
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597745

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atcccacttc | cacccaaatc | caccaccgcc | ataccagcgt | gtccgcgatt | ccgtcgagtt | 60  |
| agaccagtcg | agagagcagt | cccagacgag | aagaggtgaa | tatgagttcc | ggcggcggca | 120 |
| ggggcaagcc | caaggggtcc | aaggctgtgt | cgcggtcgac | caaggctggg | ctgcagttcc | 180 |
| ccgtcggccg | catcgcgcg  | tacctcaagg | cgggcaagta | cgccgagcgc | gtcggcggtg | 240 |
| gtgcgcccgt | ctacctctcc | gccgtcctcg | agtatctcgc | ggcagaggtg | ttggaactgg | 300 |
| cgggcaacgc | ggcgcgcgac | aacaagaaga | accgcatcgt | gccgcgccac | atccagctcg | 360 |
| ccgtgcgcaa | cgacgagg   |            |            |            |            |     |

(2) INFORMATION FOR SEQ ID NO:1329:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..125
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597746

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | His | Phe | His | Pro | Asn | Pro | Pro | Pro | Tyr | Gln | Arg | Val | Arg | Asp |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Val | Glu | Leu | Asp | Gln | Ser | Arg | Glu | Gln | Ser | Gln | Thr | Arg | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |     |
| Glu | Tyr | Glu | Phe | Arg | Arg | Arg | Gln | Gly | Gln | Ala | Gln | Gly | Val | Gln |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |

00689980-101300

Cys Val Ala Val Asp Gln Gly Trp Ala Ala Val Pro Arg Arg Pro His  
50 55 60  
Arg Ala Leu Pro Gln Gly Gly Gln Val Arg Arg Ala Arg Arg Arg Trp  
65 70 75 80  
Cys Ala Arg Leu Pro Leu Arg Arg Pro Arg Val Ser Arg Gly Arg Gly  
85 90 95  
Val Gly Thr Gly Gly Gln Arg Gly Ala Arg Gln Gln Glu Glu Pro His  
100 105 110  
Arg Ala Ala Pro His Pro Ala Arg Arg Ala Gln Arg Arg  
115 120 125

(2) INFORMATION FOR SEQ ID NO:1330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..92
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597747

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

Met Ser Ser Gly Gly Gly Arg Gly Lys Pro Lys Gly Ser Lys Ala Val  
1 5 10 15  
Ser Arg Ser Thr Lys Ala Gly Leu Gln Phe Pro Val Gly Arg Ile Ala  
20 25 30  
Arg Tyr Leu Lys Ala Gly Lys Tyr Ala Glu Arg Val Gly Gly Gly Ala  
35 40 45  
Pro Val Tyr Leu Ser Ala Val Leu Glu Tyr Leu Ala Ala Glu Val Leu  
50 55 60  
Glu Leu Ala Gly Asn Ala Ala Arg Asp Asn Lys Lys Asn Arg Ile Val  
65 70 75 80  
Pro Arg His Ile Gln Leu Ala Val Arg Asn Asp Glu  
85 90

(2) INFORMATION FOR SEQ ID NO:1331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..456
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597748

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| ctctagaacc ctagcgcbnc gcccgctctg ccgccgccgc agccgccatc gcacggccat  | 60  |
| gggtatcgat ctctagaccg gcggccgcaa caagaakacc aagcgcacgg cgcccaagtc  | 120 |
| cgacgatgtc tacctcaagc tctctgtcaa gctctaccgc ttccttgtgc gcaggacaaa  | 180 |
| gagcaacttc aacgccgtga tctcaagcg cctcttcatg agcaagacca accgcccgcc   | 240 |
| gctctcggat gcgccgcctc gtcaggttca tggaggggaa gggatgatcag atcgccgtga | 300 |
| ttgtgggcac cgtgaccgac gacaagagga tcagcgaggt gccggcgatg aaggtctgcg  | 360 |
| cgctcaggtt cactgagaca gcgagggccca ggatcatcaa tgctggcgga gagtgcctca | 420 |
| ccttcgacca gctcgcgctc cgtgccccac ttgggc                            |     |

(2) INFORMATION FOR SEQ ID NO:1332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 94 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

09689980 "101300

(D) OTHER INFORMATION: / Ceres Seq. ID 1597749

[illegible][illegible]

(2) INFORMATION FOR SEQ ID NO:1335:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..294
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597752

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

```
gttggtttgt tcttgcggaacgagacgag actaggcgac gcgasgtyag ggagtcgagg      60
aggatcgggg ctcaggcaag atgaacagga agccaggaga ctgggactgc agggcggtgcc      120
ancacctcaa cttcagccgc cgagacatat gccagckctg tagcgagcca cgtggagttg      180
ctgatcggtg cagtggcggc ggcggaggag gaggaggagg cgactacgca agctttcggt      240
ggcgcgggtg gctcctcctt cggcggcggc tttgggcgct gctggctctg acgt
```

(2) INFORMATION FOR SEQ ID NO:1336:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..53
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597753

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

```
Leu Phe Cys Ser Cys Gly Asn Glu Thr Arg Leu Gly Asp Ala Xaa Xaa
1           5           10           15
Gly Ser Arg Gly Gly Ser Gly Leu Arg Gln Asp Glu Gln Glu Ala Arg
          20           25           30
Arg Leu Gly Leu Gln Gly Val Pro Xaa Pro Gln Leu Gln Pro Pro Arg
        35           40           45
His Met Pro Xaa Leu
50
```

(2) INFORMATION FOR SEQ ID NO:1337:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..71
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597754

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

```
Met Asn Arg Lys Pro Gly Asp Trp Asp Cys Arg Ala Cys Xaa His Leu
1           5           10           15
Asn Phe Ser Arg Arg Asp Ile Cys Gln Xaa Cys Ser Glu Pro Arg Gly
          20           25           30
Val Ala Asp Arg Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Asp
        35           40           45
Tyr Ala Ser Phe Arg Trp Pro Arg Trp Leu Leu Leu Arg Arg Arg Leu
        50           55           60
Trp Ala Leu Leu Ala Leu Thr
65           70
```

(2) INFORMATION FOR SEQ ID NO:1338:

(i) SEQUENCE CHARACTERISTICS:

09669900 "08669960



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ser | Glu | Lys | Lys | Gln | Ser | Asn | Pro | Met | Arg | Glu | Ile | Lys | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gln | Lys | Leu | Val | Leu | Asn | Ile | Ser | Val | Gly | Arg | Ala | Ala | Thr | Ala | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Ala | Pro | Pro | Arg | Cys | Trp | Ser | Ser | Ser | Ala | Pro | Asp | Pro | Arg | Leu |



(2) INFORMATION FOR SEQ ID NO:1344:

(A) LENGTH: 134 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(A) NAME/KEY: peptide

(B) LOCATION: 1..134

(D) OTHER INFORMATION: / Ceres Seq. ID 1597799

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

(2) INFORMATION FOR SEQ ID NO:1345:

(A) LENGTH: 121 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(A) NAME/KEY: peptide

(B) LOCATION: 1..121

(D) OTHER INFORMATION: / Ceres Seq. ID 1597800

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Pro | Lys | Leu | Asp | Pro | Ser | Gln | Val | Val | Glu | Val | Phe | Val | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | Thr | Gly | Gly | Glu | Val | Gly | Ala | Arg | Leu | Arg | Trp | Pro | Pro | Arg | Ser |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Arg | Ser | Val | Phe | Pro | Pro | Arg | Arg | Ser | Glu | Arg | Thr | Ser | Pro | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Arg | Pro | Arg | Thr | Gly | Arg | Ala | Ser | Ala | Ser | Pro | Ser | Ser | Ser | Pro |

[illegible]

145

150

(2) INFORMATION FOR SEQ ID NO:1348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..120
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597807

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Arg | Val | Ser | Val | Leu | Asn | Asp | Ala | Leu | Lys | Ser | Met | Tyr | Asn |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Glu | Lys | Ile | Gly | Lys | Arg | Gln | Val | Met | Ile | Arg | Pro | Ser | Ser | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Ile | Ile | Lys | Phe | Leu | Thr | Val | Met | Gln | Arg | His | Gly | Tyr | Ile | Gly |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Glu | Phe | Glu | Tyr | Val | Asp | Asp | His | Arg | Ser | Gly | Lys | Ile | Val | Val | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Asn | Gly | Arg | Leu | Asn | Lys | Cys | Gly | Val | Ile | Ser | Pro | Arg | Phe | Asp |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Ile | Gly | Val | Lys | Asp | Ile | Glu | Gly | Trp | Thr | Ala | Ser | Cys | Ser | Arg | Pro |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Gly | Ser | Ser | Asp | Thr | Ser | Ser | Ser | Gln | Leu | Arg | Gln | Ala | Ser | Trp | Thr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Arg | Arg | Pro | Ala | Gly | Arg | Ala |     |     |     |     |     |     |     |     |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: peptide
- (B) LOCATION: 1..107
- (D) OTHER INFORMATION: / Ceres Seq. ID 1597808

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Tyr | Asn | Ala | Glu | Lys | Ile | Gly | Lys | Arg | Gln | Val | Met | Ile | Arg | Pro |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Ser | Ser | Lys | Val | Ile | Ile | Lys | Phe | Leu | Thr | Val | Met | Gln | Arg | His | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Tyr | Ile | Gly | Glu | Phe | Glu | Tyr | Val | Asp | Asp | His | Arg | Ser | Gly | Lys | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Val | Glu | Leu | Asn | Gly | Arg | Leu | Asn | Lys | Cys | Gly | Val | Ile | Ser | Pro |
|     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |
| Arg | Phe | Asp | Ile | Gly | Val | Lys | Asp | Ile | Glu | Gly | Trp | Thr | Ala | Ser | Cys |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Ser | Arg | Pro | Gly | Ser | Ser | Asp | Thr | Ser | Ser | Gln | Leu | Arg | Gln | Ala |     |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Ser | Trp | Thr | Thr | Arg | Arg | Pro | Ala | Gly | Arg | Ala |     |     |     |     |     |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

09589960-101300